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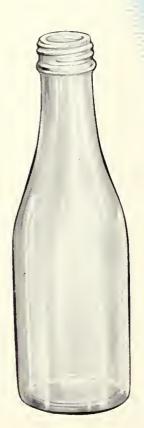
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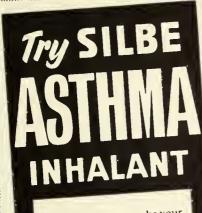
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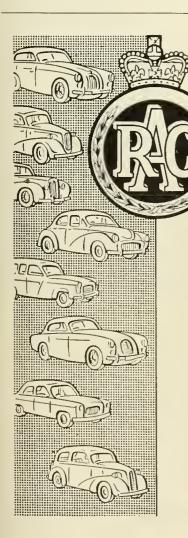
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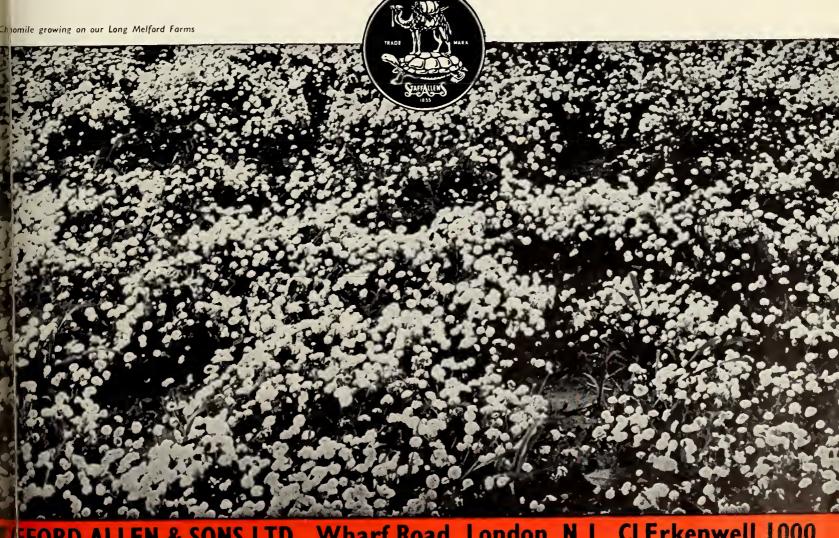


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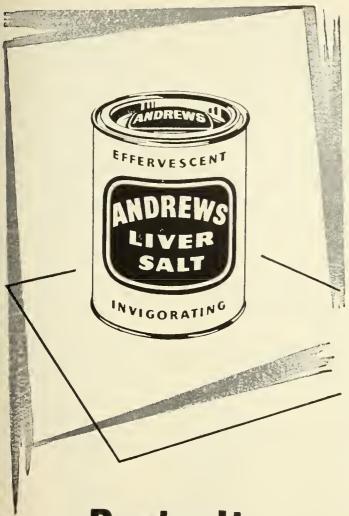




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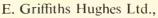


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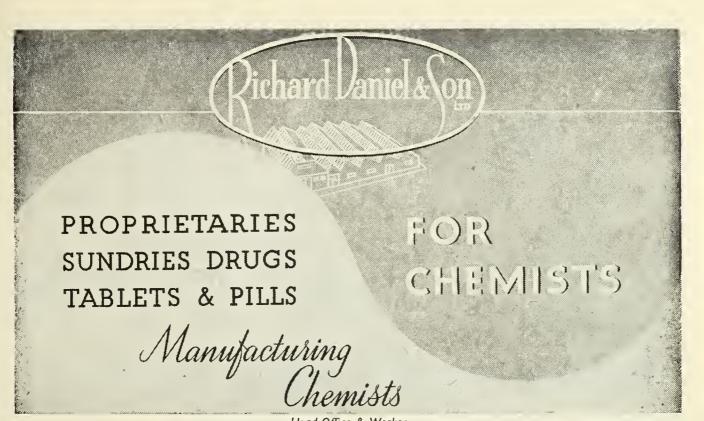


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GIVE YOUR HOME A MODERN AIR— HAVE "SCENTINEL" FRESHNESS EVERYWHERE!

and you can cash in on our campaign



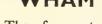
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The fragrant air-freshener spray. Aerosol 5/6. Squeeze bottle 3/6. Refills 1/6.



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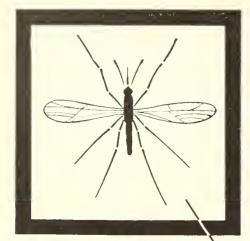
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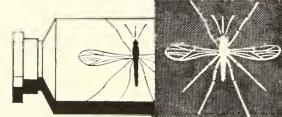
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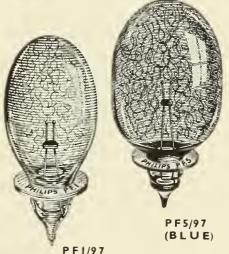
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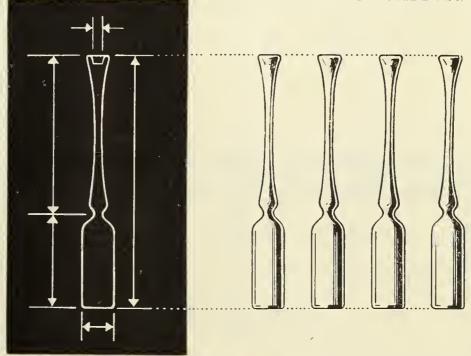
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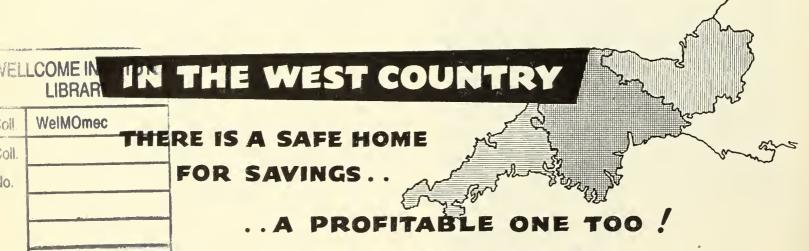
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Volume 169

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June 14, 1958

No. 4086

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PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2

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CHEMIST AND DRUGGIST

Volume 169

JUNE 14, 1958

No. 4086

An "Experiment" Ends

NO MORE ILFORD FILMS IN WOOLWORTHS

AFTER being on sale in the stores of F. W. Woolworth & Co., Ltd., for a few days only, Ilford films are being withheld as the result of an agreement reached between Ilford, Ltd., and established retail distributors of photographic goods.

In a letter circulated to members of the Photographic Dealers' Association on June 5, the Association's president writes: "Dear Member, I am happy to inform you that the experimental supply of llford film to Woolworth stores has ceased. When existing stocks have been sold no more will appear. I am greatly appreciative of this decision on the part of Ilford, Ltd., and I am sure that my fellow members will agree. Our excellent relations with this fine firm will continue unimpaired. They have met us generously and helped us to solve a difficult problem on a friendly basis. — Randall Cox, President."

Middle East Trade

COMPETITION FACING PHARMACEUTICALS

BRITISH pharmaceuticals were in prominence in the Middle East countries of Iran, Iraq, Kuwait, Bahrain and Jordan said Mr. Vaughan-Morgan (Minister of State, Board of Trade, and chairman of the Advisory Council on Middle East Trade) on June 9 upon his return from a tour of those countries. But, he added, the manufacturers would have to be vigilant because competition was increasing particularly from Germany and Czechoslovakia. For U.K. trade as a whole, there was considerable scope for an expansion and with the standard of living rising generally throughout the Middle East, it was a market "well worth developing." The United Kingdom, he maintained, must devote a great deal more effort to selling in the area than it had in the past. Businessmen, on their way to Australia or India should break their journey in the Middle East to acquaint themselves of the position.

Drug Testing Scheme

"REASONABLE AND FAIR"

THE Drug Testing Scheme is a reasonable one, works satisfactorily and is accepted by the large majority of chemists as fair, states editorial comment in the June issue of *The Executive Council* (Journal of the Society of Clerks of N.H.S. Executive Councils). "It has recently been suggested that doctors who have conscientious objec-

tion to giving test prescription should be excused. This will not hold water for one moment. Who is to judge their conscience? Should their conscientious objections result in further demands on the remainder of their colleagues? The effect might wreck the Scheme and any alternative might not be to the advantage of their pharmaceutical colleagues. . . The fact that the overwhelming majority of tests proves satisfactory is the Council's and the public's guarantee that a proper pharmaceutical service is being provided."

A Portsmouth Jubilee

RESEARCH FUND APPEAL

IN connection with the Golden Jubilee celebrations, marked by an exhibition on May 30, Portsmouth College of Technology launched an appeal for a research fund to facilitate development of post-graduate research work. The research programme for 1957–58 included: Antidiuretic substances, pharmacognostical studies of buckwheat and related species, derivatives of pyrimidine of pharmacological interest, endocrine and other factors in lactation, the mode of action of local anæsthetics, the preparation of compressed tablets, the elucidation of the configuration of certain local anæsthetics and investigation of the relationship between configuration and local anæsthe-

tic activity. Past and present members of the college, professional bodies, commerce and industry are being invited to subscribe.

Royal Visit

PRINCESS AT A NOTTINGHAM FACTORY

PRINCESS Alexandra met a number of long-service employees who have a total of more than 6,000 years' service with Boots Pure Drug Co., Ltd., when she visited the firm's chemical and pharmaceutical factories at Beeston, Nottingham, on June 5. The Princess visited Nottingham to open the £500,000 Clifton Bridge, over the River Trent, and to open the new £940,000 District Technical College, While in Nottingham the Princess also toured the Boots' factory, which had been visited by her father, the late Duke of Kent, seventeen years ago. The Princess made an extensive tour of the factory and showed keen interest in many aspects of the production of pharmaceutical products. It was the first time she had visited a pharmaceutical manufacturing plant. She was presented with a fitted beauty case as a memento of her visit on behalf of the directors by the chairman, Mr. J. P. Savage. Princess Alexandra also signed the special visitors' book which includes the signatures of the late King George VI and Queen Elizabeth the Queen Mother.

Trade Statistics

U.K. TO USE BRUSSELS CLASSIFICATION

BRITAIN is to adopt the Brussels Classification for External Trade, it was stated today at the meeting of the Customs Co-operation Council in Brussels on June 4. The necessary order is to be made on July 1, and the new



MICROBIOLOGISTS AT FERMENTATION PLANT: Members of the microbiological group of the Society of Chemical Industry photographed with Mr. W. G. Simpson (Pfizer, Ltd.) during a visit to Messrs, Pfizer's fermentation plant at Sandwich, Kent, recently.

import-export list will operate as from the beginning of 1959. There will be no immediate change in the trade statistical returns. In the new import-export list the Brussels Classification and the statistical classifications will be printed in parallel columns. Both will be required on the Customs declaration form, but if the statistical classification is left blank it will be filled in by the Customs. The procedural change, apart from lightening the task of importers and exporters will immensely ease the detailed work in negotiating and interpreting trade agreements.

Change over to Metric

INVESTIGATIONS BY STUDY GROUP

A STUDY group which has been set up by the British Association for the Advancement of Science is to make investigations into the full consequences of a change-over to the metric system in Britain. The terms of reference are: To report on the practicability, implications, consequences both international and domestic, and the cost of a changeover to the metric system or the decimalisation of weights, measures, and coinage by the United Kingdom. Interim reports on the progress of the investigation will be submitted at quarterly intervals to the council of the association, and a full report is expected in about eighteen months' time. The following arc to serve under the chairmanship of Sir Hugh Beaver: Dr. A. H. Hughes (deputy chairman and assistant managing director. Arthur Guinness Son and Co.), Dr. R. Beeching (direc-tor of Imperial Chemical Industries), Mr. M. G. Bennett (general treasurer, British Association), Professor C. F. Carter (Professor of Applied Economics, Queen's University, Belfast), Mr. Hugh Conway (joint managing director, Short Brothers & Harland, Ltd.), Mr. A. C. Hartley (consulting engineer), Lord Simon of Wythenshawe, Mr. F. S. Walker (chairman of Lever Brothers, Port Sunlight, Ltd.), and Mr. C. P. Jones (Rolls-Royce, Ltd). They have been asked to obtain such information as is necessary for the purpose of the inquiry "by taking evidence, by visiting firms and organisations or by any other means."

African Pyrethrum

RESEARCH AND DEVELOPMENT PROJECTS

PLANS to foster a major development in the dollar-earning African pyrcthrum industry were announced in London and Nairobi recently. The Pyrethrum Board of Kenya, acting on behalf of Kenya, Tanganyika and Belgian Congo growers, has established a European technical sales headquarters in London and has greatly extended research facilities in Kenya. The European headquarters is to be known as the African Pyrethrum Technical Information Centre, Ltd. (APTIC). Dr. T. F. West, D.Sc., Ph.D., F.R.I.C., A.M.I.Chem.E., has been appointed its head with the title of European operations executive. Until recently Dr. West was a director of Drug Houses of Australia, Ltd. In Kenya Dr. Alan Goldberg, D.Sc., Ph.D., D.I.C., F.R.I.C., has been appointed director of scientific services. Erection of an extraction plant for the Pyrethrum Board of Kenya has begun at The board is also Nakuru, Kenya. undertaking a major sales and technical advisory campaign in Germany. Biddle Sawyer & Co., Ltd., have been appointed its United Kingdom and Ireland agents.

Isoniazid Resistance

TROPICAL MEDICINE CHEMOTHERAPY

THE annual report of the London School of Hygiene and Tropical Medicine describes trials of chemotherapy in pulmonary tuberculosis being carried out in East Africa. A trial of drug combinations, similar to those in use in Britain for patients with similar disease, showed that the early response to chemotherapy in patients of African stock is no less than that in patients of European stock. The investigation was followed by a series of trials to discover drugs which were effective, and which were of low enough cost, for use on a mass scale in Africa. It has been shown that the combination of a sulphone drug (diamino-diphenyl-sulknown to be effective in phone), leprosy, with isoniazid has little or no effect in preventing the emergence of isoniazid-resistant strains of bacilli. The use of thiosemicarbazone for a similar purpose is now under investigation. A further trial is also in progress in which the effects of high doses of isoniazid (with pyridoxine to prevent toxic reactions) are being compared with those of a standard drug combination. Although drug-resistant strains may develop, it is expected that the bacilli will be attenuated.

B.P. Commission

CHAIRMAN AND MEMBERS ELECTED

THE following have been appointed as members of the reconstituted British Pharmacopæia Commission with effect from Scptember 1: Professor K. Bullock (pharmaceutical chemistry): Bullock (pharmaceutical chemistry); Dr. D. G. Evans (biological products); J. C. Hanbury (pharmacy); Dr. F. Hartley (pharmaceutical chemistry); Dr. D. V. Hubble (therapeutics and clinical medicine); Mr. D. W. Hudson (pharmacy); Professor W. H. Linnell (pharmaceutical chemistry); Dr. W. L. M. Perry (pharmacology); Dr. E. F. Scowen (therapeutics and clinical medicinc); Dr. J. Walker (general chemistry); Professor E. J. Wayne (therapeutry); tics and clinical medicine). Professor Wayne has been appointed Chairman.

Drug Trade Appeal Fund

OFFICERS AND TRUSTEES ELECTED THE biennial meeting of the Subscri-

bers and Trustees to the Drug Trade Appeal Fund was held on May 29 at Tavistock House South, Tavistock Square, London, W.C.1, when the accounts were duly adopted. The biennial report indicated that the trustees had received no applications that fell within the rules. The officers and trustecs for the next bicnnial period were elected as follows: Chairman, J. C. Hanbury; Treasurer, L. Johnson; Secretary, A. Duckworth; Trustees, Messrs. A. Aldington, J. C. Hanbury, C. M. Hill, W. S. Howells. Donald W. Hudson. L. Johnson, C. W. Robinson.

IRISH NEWS

THE NORTH

Purchase Tax Reductions

REBATE SCHEME MOOTED

THE injustice of the position in which retailers found themselves when there was a reduction in purchase tax was commented upon at the monthly meeting of the executive committee of Ulster Chemists' Association held in Belfast on June 3. Mr. A. Templeton, president, occupying the chair. It was agreed that the Association write to the Northern Ireland Members of the United Kingdom Parliament pointing out that the rctail trade had once again had to face losses, and setting out suggestions for a rebate scheme to offset future purchase tax reductions. A request from a mcmber for some agreement to be made regarding more expeditious delivery of parcels of urgent drugs sent by bus to provincial districts, was also received and the sccretary was instructed to take up the matter with the Ulster Transport Authority. The secretary reported that a meeting had been held with the local photo-finishing firms, concerning the recent increase in charges for developing and printing. The points of view of both sides had been freely expressed, but the finishers stated that owing to the increased overhead costs and costs of material they were compelled to increase the charges and regretted that the new charges must remain, Mr. H. W. Gamble said that the members were disappointed at the final reply of the photo finishers, as they had hoped that some compromise would be reached. Mr. J. Caldwell reported on a meeting he had attended of the Belfast Chamber of Trade in which the White Paper on the proposed amendment of legislation pertaining to food and drugs had been examined. He said that while the amendments applied to most shops in general, there appeared to be very little which affected chemists in particular that had not already been brought before the committee. Members of the subcommittee were congratulated on the arrangements made for the recent lecture on dermatology.

Mr. D. L. Kelly, successor to Mr. E. J. Stafford, 978 Shore Road, Belfast, was elected to membership of the Association. A number of employees whose applications had been approved at a previous meeting of the Associates' Committee were elected to Associateship. The secretary reported that as a result of the Bowling Tournament organised by Mr. J. Caldwell, the sum of £15 10s. had been forwarded to the Northern Ireland Chemists' Benevolent Fund. The next meeting of Committee is to be held on September 2, with urgent business to be dealt with by the

Emergency Committee.

Also present: Miss C. B. Abernethy, Messrs. J. C. Acheson, H. S. Anderson, N. A. J. Ander-J. C. Acheson, H. S. Anderson, N. A. J. Anderson, J. A. Brown, J. Caldwell, H. Donaghey, H. W. Gamble, O.B.E., C. L. Gordon-Rattie, W. J. Moffett, W. L. McDonnell, J. K. McGregor, M. C. Mooney, J. Paul, C. A. Quinn, A. Steede, J. C. Wellwood, the secretary (Miss A. E. Strachan), Apologies for absence were received from: Miss C. E. Culbert, J.P., Messrs, W. H. Boyd, T. A. Gibson, R. A. McEwen, W. J. Rankin (treasurer). Rankin (treasurer),

SCOTTISH NEWS

Chemists' Remuneration

CONSTANT REVIEW SCHEME

THE management and staff sides of the Pharmaceutieal Whitley Council are evolving a scheme whereby the effects of changed conditions on N.H.S. income and expenditure can be kept under eonstant review and any altera-tions in the chemists' remuneration as a result of such changes adjusted without undue delay. In the proposed scheme, it is envisaged that about 200 pharmaeies will be selected to form a statistical sample representing the 1,700 in Scotland. The Secretary, Pharmaceutical General Council (Scotland) is compiling a list of Scottish chemists from whom such a sample could be selected; chemists who would be willing to supply the survey aecountants with information regarding their N.H.S. income and expenditure. The survey would be concerned solely with the results eollated from the whole sample, and any particular business would be known only by a code number, thus concealing its identity. Information from a small business, is it emphasised, is just as important as that from the largest concern.

NEWS IN BRIEF

THE postal address for Speke, Liverpool, has been changed to Liverpool, 24.

A PLATE-GLASS window of Hinksman & Forrest, Ltd., 17 High Street, Carluke, Lanarks, was smashed and half a dozen eameras were stolen in a recent night "smash and grab" raid.

MR. Bahjat Kashmula. Ph.C. (director general of medical supplies, Government of Iraq), recently arrived in Britain at the invitation of the British Government on a visit to pharmaceutieal eompanies. All the arrangements for the tour are being made by the Association of British Pharmaceutical Industry.

THE annual meeting of the Unichem Association on June 4 was attended by over 250, the main feature of the evening being a new sound film produced by the British Productivity Council on work study in retail shops. It was introduced by Mr. G. H. Simmons, B.A.(Cambs.), Chief Work Study Officer of the British Productivity Officer of Council.

A DEPUTY or assistant to a medical praetitioner need not sign on form EC10 or EC10(D) the name of the doctor for whom he is acting, provided that that doctor's name and address are

stamped on the form, the Ministry of Health announces.

SPORT

Golf. — London Chemists' Golfing Society held their third meeting of the season at Harpen-

den Golf Club on June 8, Yardley cup, F. Gilson (18) 70; McClure, Young prize, G. T. Morson (11) 71. Other leading scorers: A. J. Campbell, 73; E. G. Smith, 74.

ULSTER CHEMISTS' GOLFING ASSOCIATION. At Portstewart Golf Club on June 4. McMullan cup, T. W. Currie beat J. Watson 2 up in final. McCutcheon trophy, J. Lynass; runner-up, G. P. Taylor: best gross. J. Fitzsimons * Rogey, competis Taylor; best gross, J. Fitzsimons, Bogey competition, W. J. Moffett, 36 points; G. Taggart, 32

TOPICAL REFLECTIONS

By Xrayser

Sweet are the uses

In the days of my boyhood it was considered the hall-mark of respectability and comparative affluence to possess a piano. Nothing displayed family photographs to greater advantage. And, of course, most boys and girls of that far-off day were dragooned until they had achieved a plodding mediocrity in piano playing, though there were the few who made meteoric progress and reached the dizzy, virtuoso heights of a dazzling composition called "The Maiden's Prayer." Being one of the mediocre plodders, I had cause to reflect—enviously rather than topically, in those days—on why a maiden should want to pray in such fearsome arpeggios. Most sheet music of that time had, printed on the back page, a few bars of another piece, bearing the exhortation: "Try this over on your piano "—a form of what would be described today as "plugging." But times have changed. The piano, with its portrait gallery and its aspidistra, has given place to the television set and the radiogram, and we take our entertainment—and our advertisement—without any great physical effort. Consequently, when a little package arrived at the pharmacy recently containing a small record and the modern equivalent of "trying it over," I took the package home. The record was an extremely amusing and enterprising example of what modern science can do in the way of advertising. It made one wonder if the firm concerned is a pioneer in a new field, and if the example will be followed by others, so that a choice library will eventually be built up. The thought also occurred that the frustrated medical representative might, in a busy area, leave samples and a long-playing record on the physician if he were hard-pressed.

Link with the past

The address given by Mr. F. H. Newman to the annual meeting of the Guild of Public Pharmacists provided evidence of the initiative and adaptibility of the pharmacist who embarked on his career prior to the war of 1914. The basic training was obviously on sound lines, and the deserving recipient of the Evans gold medal (p. 602) can look back on his career with the knowledge that he acted as a link between modern medicine and a medicine which had changed but little over two or three centuries. All pharmacists over the age of fifty are, though it may take a Mr. Newman to drive the point home, survivals of an earlier age, for the infusions and decoctions that were made daily had been so made, without much change, for generations. It was therefore singularly appropriate that the presentation should have been made in the hall of the Society of Apothecaries, with its strong links with a bygone age. It is an example of happy coincidence (or, perhaps, careful planning) that Mr. Newman should have been the subject of the series "Figures in the Pharmaceutical World" in the same issue of The Chemist and Druggist.

Watching brief

The need for a small committee, in more or less constant session, to collect information likely to take care of variations in the conditions affecting the income and expenses of the contractor pharmacist, has been recognised (p. 609) by both the Ministry of Health and the Central N.H.S. (Chemist Contractors) Committee. It was to be expected that it would take some time for a condition of stability to emerge following the introduction of the service in 1948. Various factors have conspired to make such stability virtually impossible—the inflationary position in national affairs; the completely changed pattern of prescribing, with its growing preponderance of proprietary in place of extemporaneously prepared medicines; and last, but by no means least, the panic-stricken, ill-judged and ineffective measures taken by the Government itself in the shape of prescription levies, which have altered the whole set-up. One of the points made by the Gillebaud committee was the need for allowing the service to settle down. If the new committee can achieve that, or something like it, where pharmacy is concerned, all contractors will be grateful.

OVERSEAS NEWS

AUSTRALIA

A New Encapsulation Plant

THROUGH their subsidiary company, D.H.A. (Laboratories) Pty., Ltd., Drug Houses of Australia, Ltd., have now in operation an additional unit for the preparation and filling of soft gelatin capsules. The plant was officially opened recently by the Minister for Health for New South Wales. Mr. P. A. Berry (chairman and managing director, D.H.A. (Laboratories) Pty., Ltd.), in introducing the Minister, briefly recapitulated the circumstances which brought the unit into being. For a number of reasons it was desirable to carry out as many manufacturing operations as possible in Australia and an agreement was entered into between Drug Houses of Australia. Ltd., and American Cyanamid Co. by which Drug Houses of Australia would manufacture a number of Lederle products in Australia. The manufacture of tablets and ointments is now being carried out in the pharmaceutical laboratory at Rozelle while encapsulation activities have been centred at Rosebery. The actual machine used for the preparation and filling of the gelatin capsules can fill liquids, pastes or powders into one-piece soft gelatin capsules. The machine, the Accogel, was developed by American Cyanamid Co. Other specialised equipment was also imported from America and the United Kingdom, but a high proportion of the plant was constructed in Australia. Technical experts were sent from Australia to America for training. Extremely rigid limits of temperature and humidity are observed in the plant. Although at present used only for antibiotic preparations, it is intended to use the unit for other products.

ADEN

Repeal of Khat Ban Sought

THE report to the Governor of Aden Colony of the khat commission of inquiry recommends the lifting of the ban on the importation into the Colony of the narcotic leaf. The report was published on May 15. The commission said that the ban, imposed a year ago, on a motion of the Legislative Council had caused resentment yet had also largely failed to achieve its purpose, which was to reduce the heavy expenditure on khat by the inhabitants of the Colony. An official estimate put the average total expenditure on khat before the ban at about £200,000 a month, or about £1 6s. 8d. a head, and the commission felt that that figure had probably not been appreciably reduced. Confirmed khat chewers now went to the boundaries of the Colony. particularly to Dar Saad, at the Lahej frontier, and held their sessions there at a rather higher cost to themselves than when they chewed, as before, in their own homes. Moreover the Colony had lost a source of revenue in the tax on khat. Medical opinion, although still uncertain about the direct effects of chewing khat was unanimous that the unsanitary conditions under which khat parties were held at Dar Saad were a real menace to the Colony's health.

GERMANY

Why the Deformed Babies?

A DEMAND for a Government inquiry is being tabled by the Free Democratic party in the West German Parliament as a result of a report by Dr. Karl Beck (Bayreuth Children's Clinic) twenty-nine babies were born with congenital defects at the clinic between April 1 and November 15, 1957—a rate of 5.2 per hundred, compared with 1.77 per hundred in the same period in 1950. The babies were all conceived in the June-December period of 1956, a time when strong radioactivity was recorded over West Germany and a period in which there were thirteen nuclear test explosions. Dr. Beck stated that his report covered only one hospital, but added: "I wanted to draw attention to a possible source of danger.' have called for a wider statistical study than Dr. Beck's, which was based on only 600 cases.

HOLLAND

Centenary of a Chemical Works

A DUTCH chemical company, N.V. Koninklijke Stearine Kaarsenfabriek Gouda Apollo, Gouda, celebrated its centenary in May. The company commenced its activities with the manufacture of stearine candles—at first made only for the work's own use. The product, as well as oleine and glycerin, soon found a market in industry so that even before the 1914-18 war production of those by-products far exceeded that of candles. At present about 93 per cent. of the total value of the company's turnover is accounted for by chemical products, the production programme comprising stearine, oleine, glycerin, distilled fatty acids and fractionally distilled fatty acids such as caprylic, capric, lauric, myristic, palmitic and stearic acids. Some years ago the company began to manufacture fatty acid. fatty-acid derivatives (esters and amides). The present plant is unable to meet the full demand for those products and a new works is under construction.

UNITED STATES

Insecticides for Use in Dairies

HEALTH Authorities in the United States are announced to have added to the list of chemicals that must be used with caution near dairy products the compound methoxychlor, a chlorinated hydrocarbon insecticide. A short list of insecticides regarded as safe for application in milking sheds, dairies and processing plants includes pyrethrum and its widely-used synergist, piperonyl butoxide.

RHODESIA AND NYASALAND

New Drug Against Bilharzia

A NEW drug, known as T.W.S.B., tested in the malaria and bilharzia research laboratory of the Federation of Rhodesia and Nyasaland, has been described by Dr. W. Alves (director of the laboratory) as the most successful drug against bilharzia tested in the laboratory since he took charge in 1944. "Our latest research with T.W.S.B. indicates that patients can be cured in

three days," said Dr. Alves. "There are no ill-effects from the use of the drug. The drug is not yet on the market as a commercial proposition, but it is likely to be so soon." T.W.S.B. was developed by a Swiss physician working in America on bilharzia research.

SOUTH AFRICA

A Cobalt "Bomb"

PRETORIA General Hospital has bought an £18,000 cobalt "bomb" that can produce 30,000 times more radiation than any radioactive substance ever used in South Africa in the treatment of cancer. It is expected to arrive in South Africa from Germany towards the end of the year. The director of the department of radiotherapy at the hospital said: "We do not expect miracles but the unit will mean enhanced hope for cancer sufferers." The unit, a 2,000-Curies cobalt 60, would be able to treat more effectively deep-seated cancerous lesions, particularly in the lungs, stomach, bladder and bones.

More Pharmacists Needed

THE need for more pharmacists in South Africa was stressed by Mr. A. Kramer (president, Pharmaceutical Society of South Africa) at the thirteenth annual meeting of the Society's general council held recently. Mr. Kramer asserted that young people were disinclined to venture into professions because basic education to matriculation standard had fallen too far behind the level of the next stage. "Our matriculants seem to have too poor a grounding in science subjects and mathematics to equip them for what is ahead if they take up the professions of medicine, pure science, engineering, accountancy or pharmacy." It was pharmacy's task to encourage young people to come into its ranks. He appealed to parents to trust in pharmacy as a career for their children and said "pharmacy will be restored to the high status and dignity it so well merits." The pharmaceutical it so well merits." The pharmaceutical industry needed about 250 new registered chemists and druggists each year. At present only half that number were qualifying. Mr. Kramer also said that pharmacy was perturbed, as were other professions, about the educational and training position. He went on to reply to criticisms that "any half-skilled assistant" could serve in a chemist's shop. That was nonsense. Would the people of South Africa be prepared to leave their prescriptions to prepared to leave their prescriptions to unskilled hands.

EXHIBITION AND FAIR

INTERNATIONAL GIFTS AND FANCY GOODS FAIR, Blackpool, February 2-6, 1959. Over 1,200 applications by British and overseas exhibitors for stands have been received.

FACTORY EQUIPMENT EXHIBITION, Earls Court, London, 1959. The exhibition is being extended from six to ten days (April 7–17) and its scope widened to include answers to the problems of noise. Included next year will be exhibits of the latest materials and methods for noise reduction in factories and offices.

CENTRAL HEALTH SERVICES COUNCIL

Review of Committee's work in 1957

THERE are summaries of what the chairman (Lord Cohen of Birkenhead) describes as two important reports received during the year—one on welfare foods and the other on Dangerous Drugs and poisons in hospitals (see C. & D., August 3, p. 115, and February 22, p. 198)—in the report of the Central Health Services Council for 1957 published on June 6.

Steps Against Cross Infection

The Standing Medical Advisory Committee states that its advice was sought on the problem of outbreaks in hospitals of infection due to staphylococci resistant to antibiotics. It was felt that this could best be considered by a specially constituted subcommittee, which is now considering the possibility of advice being issued on steps which could be taken to control such infection.

The Standing Pharmaceutical Advisory Committee met once in 1957 when it considered a draft paper submitted by the Ministry of Health on the staffing of pharmaceutical departments in hospitals, which had been referred to the Committee for advice. The Ministry had written to hospital authorities, drawing attention in particular to certain recommendations of the subcommittee on the hospital pharmaceutical service. While some progress had no doubt been made, the Ministry felt there was room for more, and proposed to make more definite suggestions on the lines set out in the paper. A subcommittee was appointed to consider the paper and make recommendations to the Standing Committee. That sub-committee met three times and submitted its report to the Standing Committee. The subcommittee subsequently reviewed the report in the light of comments made by members of the Standing Committee. ing Committee and at the end of the year a revised report was ready to be submitted to the Standing Committee.
The Joint Committee on Poliomyelitis

Vaccine gave the following advice for the immunisation against diphtheria

and whooping cough in the light of the Medical Research Council's findings that certain prophylactics provoked poliomyelitis: that non-alum-precipitated antigens should be recommended for use against diphtheria; that there is a risk of provoking poliomyelitis in using antigens in combination. Some of these risks have been measured, others such as might occur in using combined whooping cough and tetanus antigens or combined diphtheria and tetanus antigens have not been measured. Antigens should, in general, preferably be used separately, though the advantages of that must be weighed against the psychological dangers of giving frequent injections to the child; that if non-alum-precipitated antigens are used. alum-precipitated antigens are used singly they may be used throughout the year, subject to the discretion of the medical officer of health.

Other topics including tuberculosis are touched upon. The report is obtainable from H.M. Stationery Office, price

BLADES AND SHAVERS FROM SCOTLAND

Secretary of State opens new factory at Glasgow

AN important development in the razor blade, safety razor and electric shaver industry in Britain took place on June 6 with the opening of a new 100,000 sq. ft, factory for Ever Ready Razor Products, Ltd., at Colquhoun Avenue, Hillington Industrial Estate, Cardonald, Glasgow. On that site is being concentrated the entire production of Ever Ready, Corrux, Speedway. Pal, Star, Radio Gold and Personna blades; of Pal Golden Injecto-matic and Ever Ready "natural-angle" safety razors; and of Arvin electric shavers. razors; and of Arvin electric shavers.

Plaque Unveiled

The opening ceremony was performed by the Secretary of State for Scotland (Rt. Hon. J. S. Maclay, C.M.G.), who unveiled a suitably worded plaque on staircase wall in the factory's entrance-hall. At a luncheon presided over by Mr. Cecil E. Drukker (chairman, Ever Ready Razor Products, Ltd.), the president of the parent American Safety Razor Products, Ltd.), the president of the parent American Safety Razor Products Corporation (Mr. Sidney Weil) was present. The company's managing director (Mr. I. G. Duncan) outlined the reasons for choosing Glasgow as location for the for the ing Glasgow as location for the factory The company found itself, he said, with three works, two in England and one in Scotland. All were manufacturing similar products, and it was clear that consolidation ought to result in greater efficiency, allowing a larger number of specialised technicians to be employed. The existing London factory was efficient and housed the executive and sales offices, but permission to extend there was denied by the Planning Authorities. At that stage Scottish Industrial Estates offered to provide a really modern factory at Cardonald. The project was backed by the Board of Trade, and "from then we never looked back, though the advent of two credit squeezes caused some delays." The new factory, said Mr. Duncan,

was no mere branch which, in bad times, could be closed at will. It was the company's home, "and we are here to stay." Consolidation had proceeded by stages for three years, and the first phase was now over. Over 800 tons of machine tools and stores had been moved into the building, and it was up to Scottish labour to make good use of those tools



"STATE" OPENING: The Secretary of State for Scotland (Rt. Hon. J. S. Maclay) officially opens a new factory for Ever-Ready Razor Products, Ltd., at Cardonald, Glasgow, by unveiling a wall plaque. On the Minister's right are Mr. C. E. Drukker (chairman of the company) and the Lord Provost of Glasgow.

In the new building they had a flow line of 500 ft., and produced about 20 miles of razor blades a day. The layout allowed for extension of the building if necessary. The roof glazing faced North for maximum natural light with-North for maximum natural light with-out direct sunlight, and the main fac-tory floor had only one line of roof support pillars, thus providing unin-terrupted spans of 100 ft. each. In edge making for the blades a quantity of oil of the order of 20,000 gall, per hour was called for in the works. The oil was led from the machine

works. The oil was led from the machine through a 9-in, main under the floor. and from there to two long tanks, each of 10,000-gall capacity. Baffles caused the sludge to drop to the bottom, from which it was continuously removed.
The cleaned coolant was pumped through tanks back to the machines. providing an unlimited supply.

Mr. Duncan concluded his remarks

with a hint that the company would be manufacturing "at least one major product outside the shaving field.

Growth of the Company

The first Ever-Ready safety razors were launched in Britain in 1907, at a retail price of 5s. each. In 1920 the company amalgamated with Gem Razor Corporation to become Ever-Ready Razor Products, Ltd., with offices in Great Woodstock Street, London. The company's first factory on British soil was completed at Cricklewood in 1928, and four years later a larger factory was opened at Colindale. In 1948 the company took over the Chade Blade Co. and its factory at Dunstable, Beds, where the manufacture of Star blades was undertaken. In 1953 Pal Personna Blades, Ltd., was taken over, adding a third factory at Hillington, Glasgow. and in 1956 the company acquired Arvin Electric Co., Ltd., makers of electric dry shavers.

COMPANY NEWS

Last year's figures in parentheses

DENTAL MANUFACTURING CO., LTD.—Group trading profit for 1957 is £96.155 (£116.445). Net profit is £18,871 (£30,055): dividend 10 per cent. (same).

COLEMAN & CO., LTD. — Final dividend $8\frac{3}{4}$ per eent., making $13\frac{3}{4}$ per cent. for year ended March 31 (same). Consolidated net profit estimated at £54,270 (£61,438) before tax of £32,785 (£24,329).

RANK PRECISION INDUSTRIES, LTD.—The Ordinary dividend is being lowered to 5 per cent. for 1957 (from the 15 per cent. paid for 1956). Group net profits declined to £151,441 (from £219,221) after tax of £163,607 (£258,863).

LEWIS & BURROWS, LTD. — A "substantial" interest in the company has been aequired by Mappin & Webb, Ltd., jewellers and silversmiths. The deal has been earried out through Mappin's wholly owned subsidiary John Weiss, Ltd., surgical instrument manufacturers.

ASHE CHEMICAL. LTD.—Group income for 1957 is £97.122 (£95,866 including a transfer of £20,464 from capital reserve account). Tax £41,049 (£45,557), and dividend 13½ per cent. (10 per cent.). Current assets £98,614 (£141,396).

BOVRIL, LTD.—Group profit expanded from £695,762 to £864,536 in 1957, including £52,250 in respect of previous years. After tax of £478,411 (£397,166), the net profit is £386,125 (£298.596). The dividend on the £1 million Deferred capital is maintained at 16 per cent. Profit attributable to the parent company is £342,292 (£277,765).

A. BOAKE ROBERTS & CO. (HOLDINGS), LTD.—A final dividend of 10 per cent., making 15 per cent. for the year to March 30, is recommended, as for the previous year. Group profits improved to £352,104 (from £226,381), and after tax of £99,003 (£103,826) and minority interests of £3,939 (£2,145), the balance atributable to the company is £249,162 (£120,410).

ASPRO - NICHOLAS, LTD. — A fourth interim of 6 per eent., making 24 per cent. for the year to March 31, is declared as previously. Group profit is £683,708 (£610,574); tax, £413,893 (£341,791); balance, £269,815 (£268,783). Year-end group capital reserves amounted to £66,552 (£66,919) and general reserves to £788,228 (£802,880), after deducting £104,833 and £126,916 respectively for amounts written off goodwill and trade marks.

UNICHEM, LTD. — At the annual meeting on June 4, Mr. E. Skues, M.P.S., was elected chairman of the company and Mr. T. V. Cale, M.P.S., viee-ehairman. Mr. J. Howard Evans, M.P.S., was elected to the board in place of the former chairman (Mr. D. A. Rees, F.P.S.), who did not seek re-election. A dividend of 8 per cent. was deelared on Ordinary shares (same). The allocation to reserves was £24,500 (£17,500) with provision for

taxation £34,792 (£26,511) and earry-forward, £3,186 (£1,869).

GREEFF - CHEMICALS HOLD-INGS, LTD. — Group net profit for 1957 is £87,368 (£64.659) and distribution 20 per eent. including interim 5 per eent. on smaller capital (16 per cent. on smaller capital). Trade investments, £786,925 (£697,635) after deducting unealled liability, £89,290 (nil). Current assets, £963,075 (£713,827), liabilities £498,419 (£396,282). The chairman (Mr. S. B. Smith) says that in view of uncertainties of immediate outlook revaluation of trade investments has been deferred for at least another year. Turnover in eurrent year to date exceeds that of same period last year.

RECKITT & COLMAN HOLD-INGS, LTD.—Mr. J. B. Upton (ehairman) says that group total sales in 1957 were approximately 10 per cent. greater than in 1956. About 60 per cent. of the sales were made outside the United Kingdom and both home and overseas sales continued to increase. For the early part of 1958 sales are reasonably satisfactory and it may well be that the results will compare favourably with those of 1957. The consolidated balance-sheet shows that capital and reserves were £41,776,380, an increase of £2,645,009. Properties, plant, and machinery increased by £1,820,644. Capital expenditure on enlarging and improving the factories eost about £3 millions in 1957; not less than this amount will be spent in 1958. The reorganisation of the group has been effected.

New Companies

P.C. = Private Company; R.O. = Registered Office

CHEMIPOINT, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists, druggists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, barrister, 156 Strand, London, W.C.2.

W. A. E. BUSBY, LTD. (P.C.). — Capital £300. To carry on the business of manufacturers of and dealers in laboratory, hospital and scientific instruments, etc. Subscribers: Peter F. Ralfs and J. E. Phillips. The first directors are not named, R.O.: 96 Farringdon Road, London, E.C.1.

AIRLEY (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a dispensing chemist carried on at Higher Crumpsall, Manchester, etc. Directors: Miriam Airley, M.P.S., and Maurice S. Myers. R.O.: 246 Middleton Road, Higher Crumpsall, Manchester, 8.

FRANK H. SEDGWICK & CO., LTD. (P.C.).—Capital £2,500. To carry on the business of consultants and manufacturers of perfumes, cosmetics and toilet preparations, etc. Subscribers: Elizabeth Violet Sedgwick, 9 St. Stephen's Road, Hounslow, Middlesex, and Michael D. N. Cobbold.

RAINBO PHARMACEUTICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, etc. Directors: John Ramage (director, Clinical Products, Ltd.) and Stanley W.

Goody (director, Menopax, Ltd., etc.). R.O.: 9 Arundel Street, London, W.C.2.

G. R. LANE CHARABS, LTD. (P.C.).—Capital £12,000. To acquire the business of a manufacturing chemist carried on by G. R. Lane at Gloucester, etc. Directors: Gilbert R. Lane, Graee J. Lane, Helen J. H. Lane and Roger G. Lane, M.P.S., R.O.: Horton Road, Gloucester.

QUICK-EZE PROPRIETARY, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in all kinds of medicines, drugs, ehemical goods, etc. The first directors are to be appointed. Solicitors: Slaughter & May, 18 Austin Friars, London. E.C.2.

STAYNE LABORATORIES, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing, wholesale and retail chemists and druggists, etc. Directors: Harold A. P. Miller and Francis G. Hope (director, Heelas of Wokingham, Ltd.). R.O.: 369 Kingston Road, London, S.W.20.

WILLIAMSON & WALKER, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in confectioners' and chemists' sundries, etc. Directors: Leslie Walker, M.P.S., Michael J. Walker, Anthony R. Williamson and John Williamson, M.P.S. R.O.: Manor House Warehouse, Sprotborough, near Doncaster.

E. McCORMACK & CO., LTD. (P.C.).—Registered in Dublin. Capital £30,000. To acquire the business of soap and ehemical manufacturers carried on at West Pier, Dunlaoghaire, co. Dublin, by Thomas W. Breaden as E. McCormack & Co. The first directors are not named.

C. H. GREENHAM AND I. C. GREENHAM, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in electromedical apparatus and ultra-violet ray outfits, etc. Directors: Charles H. Greenham and Ian C. Greenham. R.O.: 209B Great Portland Street, London, W.1.

LINSALL, LTD. (P.C.). — Capital £400. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Directors: Clarence H. Tomlinson, M.P.S., Edith M. Tomlinson, Christopher Arnall and Edith M. G. Arnall. R.O.: St. Annes Buildings, 349 Clifton Drive North, St. Annes-on-Sea.

MERRELL-NATIONAL (LABORA-TORIES), LTD. (P.C.). — Capital £50,000. To carry on the business of manufacturers of and dealers in pharmaceutical preparations, soaps, cosmetics, and other preparations, etc. Directors: Francis W. P. Corbould (director, Viek International, Ltd.), David I. Wilson (director, A. & P. Food Stores, Ltd.), Alan Talbot, M.P.S., Edward P. Anderson (director, Vick Products, Ltd.), John K. Lindsay (president, Merrell-National (Overseas) Laboratories), and Sherwood E. Silliman Inc.). R.O.: 20 Savile Row, London, (director, Jenson-Salsbery Laboratories,

BUSINESS CHANGES

P.C. PRODUCTS, LTD., have opened a Bristol office and warehouse at 260 Hotwell Road (Bristol, 8), with Mr. H. Haywood, the divisional area sales manager, in charge.

THE offices and showrooms of the north-east region of Philips Electrical, Ltd., have been transferred to 72 Wellington Street, Leeds, 1, and the trade counter and stores to adjacent premises at 2 Britannia Street (telephone: Leeds 36141).

Appointments

MR. S. A. GREGORY. B.Sc., M.I.Chem.E., has been appointed technical manager of the dryer division of Birlec, Ltd., Tyburn Road, Erdington. Birmingham, 24, manufacturers of electric furnaces.

BRITISH PATENT PERFORATED PAPER CO., LTD., Hackney Wick, London, E.9, have reappointed Mr. A. A. Pitman to their sales staff to take over their Surrey territory from Mr. L. F. Alderson, who in turn will work Mr. J. R. Smith's territory until the latter has recovered from his present illness.

GEIGY PHARMACEUTICAL CO., LTD., Roundthorn Estate, Wythenshawe, Manchester, 23, have appointed the following representatives:—Messrs. K. R. Ambler, M.P.S. (for Staffordshire and Shropshire); T. Brown, M.P.S. (part of South Wales); A. G. Crone, M.P.S. (parts of Durham and Yorkshire); T. G. Lawrence, M.P.S. (Sussex); R. T. Mills, M.P.S. (South Yorkshire and Derbyshire); J. J. Pemberton, M.P.S. (West Lancashire); L. J. N. Rutterford, M.P.S. (Home Counties); and K. J. Walker, M.P.S. (Surrey).

PERSONALITIES

MR. IAN ORR, M.P.S., Wheatpark House, Lanark, recently gave a "my job" talk to fellow members of Lanark Rotary Club.

MR. F. A. ROBINSON, M.Sc.(Tech.), LL.B., F.R.I.C., has been awarded the



degree of Doctor of Science, Manchester University, for his research into vitamins and antibiotics. Mr. Robinson director of the Research and Control Division, Allen & Hanburys, Ltd. He is treasurer and a pastchairman of the Biochemical So-

ciety, director and secretary of Biological and Medical Abstracts, Ltd., which publishes international abstracts of biological sciences and a council member of the Royal Institute of Chemistry. During the war he was secretary of the Penicillin Producers Conference and a member of the Medical Research Council's Committee for Penicillin Synthesis, and later a member of the Chemistry Research Board of the Department of Scientific Industrial Research.

MR. C. R. HANDSCOMB, M.P.S., is referred to as the "doyen of local pharmacists" in a "portrait gallery" feature of the *Bedfordshire Times & Standard* of May 23. Mr. Handscomb is a former chairman of the Bedfordshire Branch of the Pharmaccutical Society, was president of the local Chamber of Trade in 1957 and is a member of Bedford Rotary Club. He is a director and the superintendent pharmacist of Taylor, Brawn & Flood, Ltd., 71 High Street, Bedford.

MR. S. J. RELPH, B.Pharm., F.P.S., F.L.S., A.C.T., 64 High Street, London, E.11, was recently re-elected to Wanstead and Woodford borough council, on which he had served for six years. Mr. Relph has since been elected chairman of the Public Health Committee for a second year. A past-chairman of the Civil Defence Committee, he is now serving a fourth term on Essex County Civil Defence Committee. Mr. Relph has had the unusual distinction of attending both British and French Civil Defence Staff Colleges. He was recently elected a member of the Royal Society of Health.

MR. H. G. CAMPBELL, M.P.S.N.I., Church Street, Ballymoney, has been elected chairman of the Ballymoney urban district council, on which he has served as a member for twelve years. Mr. Campbell is a member of the Northern Ireland General Health Services Board and of the Council of the Pharmaceutical Society of Northern Ireland, a past president and now trustee of the Ulster Chemists' Association. and immediate past chairman of the Local Pharmaceutical Committee.



AWARD FOR MERIT: During a recent visit to Chicago, U.S.A., Dr. G. H. Donnison (Abbott Laboratories, Ltd., London, W.I), was presented with a special certificate of merit in recognition of his scientific achievements for the advancement of medical science. Illustration shows Mr. G. C. Dufour (chairman, Abbott Laboratories, Ltd.), handing the award to Dr. Donnison at a dinner held in his honour. A chemist in technical production, Dr. Donnison's efforts has led to the adoption of new simplified production methods for several of the company's products since he joined the company in 1983. Dr. Donnison graduated B.Sc. at Durham University, with honours in organic chemistry, and received his Ph.D. degree at Birmingham University.

DEATHS

BANHAM.—On May 6, Mr. Albert Edward Banham, M.P.S., 22 Chesswood Road, Worthing, Sussex, aged seventy-nine.

BLACK.—At his home, 163 Northumberland Road, Harrow, Middlesex, on June 3, Mr. Hugh Richmond Black, M.P.S., aged sixty. After some years in retail and as a representative for the Armour Laboratories, Mr. Black joined Duncan, Flockhart & Co., Ltd., as representative in 1922 and was with the company until his death following a short illness. He specialised in the anæsthetic section of the business and was well known to and respected by more than one generation of anæsthetists. The funeral was at Golders Green Crematorium on June 6. Among those present were representatives of pharmacy and medicine.

Dr. P. W. Spencer Gray (senior consultant anæsthetist, Chase Farm Hospital, Enfield) writes: Many consultant anæsthetists will learn with sorrow of the death of Mr. Black, senior representative for Duncan, Flockhart, His rubicund, cheerful, smiling face under a vast "ten gallon" hat was known throughout the country. He was a representative that was always welcome: what more can be said? Maintaining a thoroughly ethical approach at all times he was the model representative, whom all would do well to emulate. To many of us he became a friend whose visits will be greatly missed. His widow and daughter should be comforted by the knowledge that the memory of the great gentleman will not fade and his service to anæsthesia will long be remembered.

HALE.—On May 20, Mr. Benjamin Hale, M.P.S., 28 Whitehays Road, Burton, Christchurch, Hants, aged sixtyseven.

ROBERTS.—On May 23, Mr. William Rooke Roberts, M.P.S., 116 Overdale, Ashtead, Surrey, aged seventy-eight.

WARLOW.—On May 11, Mr. Norman Sydney Warlow, F.P.S., Fort Jameson, Eastern Province, Northern Rhodesia, Africa. Mr. Warlow qualified in 1936.

INQUESTS

Alcohol Plus Sleeping Tablets. — There was no evidence to show that Mr. Ivan Malcolm de Vere, formerly assistant manager of a London hotel, had intended to take his own life, or that he had been anything else but intoxicated, it was stated at an Epsom, Surrey, inquest held on May 9. Mr. de Vere had been found lying unconscious on Epsom Downs, and had subsequently died. A pathologist said that death was caused by a combination of alcohol and sleeping tablets. A verdict on those lines was recorded.

Prussic Acid Suicide.—Worried by the thought of approaching blindness a Kingswinford chemist, Mr. Cyril Thomas Lloyd, was stated at a Wordsley inquest on May 31, to have committed suicide by drinking prussic acid. A verdict that he took his own life while the balance of his mind was temporarily disturbed was recorded. Mrs. Lloyd said that her husband was employed by a firm of chemists in Market Square, Kingswinford. His eyes had been getting steadily worse since an illness a few years ago, when he was unconscious for two weeks. Nothing could be done to stop him from going blind. Recording his verdict the coroner described it as a terribly sad case. In a note left by Lloyd one passage read: "I shall not be able to do my job much longer. As a blind man I shall be an unwanted burden."

PHOTOGRAPHIC NOTES

Repairs. — Manchester Camera Co., Ltd., 12 Brazennose Street, Manchester, 2, offer a service in camera repairs, with a six months' guarantee and a guarantee "seal" attached to each camera after inspection. Receipt of apparatus sent to the company is acknowledged by return, and full insurance coverage is given while the camera is on the company's premises.

Credits. — Credit notes are being passed by the Pullin Optical Co., Ltd., 93 New Cavendish Street, London, W.1, for the list price difference (less usual discount) on unsold Slidelite viewers purchased since January 1. Applicants should give invoice number, date, number of viewers supplied and number still held in stock. A reduced price now operates.

Low-priced 35-mm. Camera.—North Staffs Photographic Services. Ball's Yard, Newcastle, Staffs, are marketing a new 35-mm. camera, the Mastra V35, described as the "lowest priced 35mm. camera with a world well-known (its lens being the Cassar f/2.8 made by Steinheil, Munich, Germany). The Mastra V35 has a one-stroke lever wind and Vero four-speed shutter with 1/25, 1/50, 1/100 and 1/200-scc. shutter speeds. The camera is being featured in the photographic Press in June.

Amateur Cine "Oscar."—Mrs. Marie Partridge, winner of an "Oscar" in the annual competition, sponsored by the Amateur Cine World for the ten best amateur cine films, is the first woman to gain the award. Her subject was an animal film entitled "Whither shall she Wander?" which, with those of the other nine award winners, is having a ten-day showing at the National Film Theatre during May and June. Kodak, Ltd., Kingsway, London, W.C.2, state that Kodak film was used by nine of the ten successful competitiors.

Cameras Discontinued.—Rank Precision Industries, Ltd., 37 Mortimer Strect, London, W.1, announce that production of the G.B. Kershaw range of 110, 630 and 450 cameras has been discontinued, and all existing stocks have been sold. No further orders for the cameras are being accepted, but normal after-sales servicing facilities continue to be available. Any dealer who needs literature or a display stand should notify the company. There is no present intention of introducing an alternative line of still cameras.

Stock Credit Plan. — The Pullin Optical Co., Ltd., 93 New Cavendish Street, London, W.1, are operating a stock-credit plan designed to help dealers to commence the photographic season with ample stocks of photo-graphic merchandise without immediate financial outlay. Under the scheme payment for the goods ordered is spread over four monthly periods. The dealer is asked to place a £50value minimum order (including purchase tax) on receipt of which they send him a pro-forma invoice and standing order draft on the stockist's bankers for signature. Payment is then spread over four equal payments, the first due on the fifteenth day of the month following the date of invoice, and the remainder on the fifteenth day of each succeeding month.

Movie Camera Turret.—The recentlyintroduced Brownie movie camera turret, f/1.9, is a more versatile version of the Brownie movie camera, model II. Designed for those who want to take a wider range of 8-mm. movie



pictures, it has the simplicity of action associated with Brownie cameras. The camera has a standard 13-mm. fixedfocus f/1.9 lens and three-position turret housing a 9-mm. wide-angle converter lens, 24-mm. telephoto converter lens, and lens hood. Either of the two converter lenses or the lens hood is brought into position simply by rotating the turret. The triple-field viewfinder is of eye-level direct-vision type. The camera is at present in limited supply.

Battery Viewer. — The Pullin Optical Co., Ltd., 93 New Cavendish Street, London, W.1, have introduced a new battery viewer, the Logavist model SSB, with the $2\frac{1}{5}$ -in, diameter glass lens of model SS, but fitted with two batteries and two lamps to provide an evenly illuminated picture for 2 x 2 in. slides. The Logavist 35-mm. film-strip attachment may be used in conjunction with the viewer for the examination of negative or positive strips. Messrs. Pullin are also marketing a 2 x 2 in. slide transit box in two sizes (160 and 60 slides). Both boxes are finished in polished oak vencer.

Photographers' Map of Britain.— Kodak, Ltd., Kingsway, London, W.C.2, are catering in an imaginative way for amateur photographers who may, when away from home in other parts of Britain miss places of photographic interest through being unaware of their existence. They are issuing a series of maps specially designed for amateur photographers. The first covers the South-east of England from Evesham to Aldeburgh and from Poole to Dover on a scale of 6 miles to 1 in. The map is marked with red symbols to indicate villages, monuments, castles, churches, views and other places of photographic interest. A gazetteer on the back gives brief descriptions of about 300 of the places marked, e.g.— Alford (Surrey): A Wealden village of charming old mellow cottages, an ancient church with massive belfry framing and, nearby, the old village

stocks and whipping post. On the back of the map is an enlarged map of Central London showing historical and photogenic" buildings, and main-line and underground stations. Exposure tables for Kodak black-and-white and colour films are listed, with tips on picture-taking, on colour photography and on flash photography.

Appointed Distributors. — Hanimex (U.K.), Ltd., 345 City Road, London, E.C.1, have made arrangements for distribution through the following wholesalers:

AMPLION (1932), LTD., 175 Cricklewood Lane, London, N.W.2

BARCLAY & SONS, LID., 27 Devonshire Place, Brighton, 1

BROOKE, PARKER & Co., LTD., Ashfield, Bradford, 7

BUSH & MEISSNER, LTD., 8 Blyanston Street, London, W.1

E. H. BUTLER & Co., 93 Humberstone Gate, Leicester

DRIVERS (LEE GREEN), LTD., 27 Eltham Road, London, S.E.12
Herbert Flrryman, Ltd., Cobden Bridge,

Southampton

W. R. HATRICK, LTD., 158 Renfield Street,

Glasgow, C.2 HUTLEYS, LTD., 233 London Road, St. Leonards-on-Sea, Sussex

KENMORE (MERCHANTS), LTD., 83 Westgate. Bradford

JONATHAN FALLOWFIELD, LTD., 74 Newman Street, London, W.1

J. LIZARS (N.I.), LID., 101 Buchanan Street, Glasgow, C.1

T. & H. SMITH, LTD., 104 Holyrood Road, Edinburgh, 8

JAMES WOOLLEY SONS & Co., LTD., Victoria Bridge, Manchester, 3

SOUTHALL BROS. & BARCLAY, LTD., 220 Corporation Street, Birmingham, 4
CO-OPERATIVE WHOLESALE SOCIETY, LTD., Bal-

Ioon Street, Manchester.

MACHINERY AND PLANT

United Kingdom Agents.—Freeman Taylor Machines, Ltd., Necton Street Works, Syston, Leicester, manufac-turers of stainless steel plant, have been appointed United Kingdom agents for Olsa, Milan, designers and manufacturers of chemical and pharmaceutical plant and stainless steel valves.

British Chemical Plant.—A biennial publication, British Chemical Plant, is an illustrated directory of members of the British Chemical Plant Manufacturers Association. The guide is divided into three sections; a list of members with their addresses and, where they have wished to publish them, the names and addresses of their overseas agents; an illustrated section consisting of members' advertisements; and a classified index of products and services prefaced by advice to enquirers and followed by a key in French, German and Spanish. The continued growth of the Association and the increased scope of the directory is reflected in increased membership. The directory itself has increased from 393 to 402 pages. Six thousand copies have been printed for distribution at home and abroad. A limited number of copies held for chemical plant users will be sent free on application to the secretary of the Association, 14 Suffolk Street, London, S.W.1.

NEW PRODUCTS AND PACKS

To Lower Scrum Cholesterol.—Ward Casson, Ltd., 15 Hay Hill, London, W.1, are marketing a new product Arterochol for lowering serum cholesterol (usually associated with coronary heart disease). It is a pleasantly flavoured emulsion of corn oil combined with vitamin B6, and is available in containers of 12 and (dispensing pack) 80 fl. oz.

Antibiotic Combination. — Glaxo Laboratories, Ltd., Greenford, Middlesex, announce the introduction of Triplopen-S (a combination of Triplopen and streptomycin). The sterile dry product is available in single-dose vials for reconstitution by the addition of sterile water to yield in each 3-mil dose 0.5 mega units of sodium benzylpenicillin, 0.5 m.u. of benethamine penicillin, and 0.5 gm. of streptomycin sulphate. The pack is a single-dose vial.



CROWNER: Illustration shows a new display crowner for a single-tube carton of Paton's dental ointment.

Noradrenaline Injection Solution. — Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts, are distributing through Savory & Moore, Ltd., 50 Wigmore Street, London, W.1, a new medicinal speciality: injection solution of noradrenaline acid tartrate. The solution is available as standard solution 1 in 1,000, and as emergency solution 1 in 10,000. The standard solution is for intravenous administration after suitable dilution in the treatment of shock. The emergency solution is for cardiac resuscitation by intravenous injection. The products are contraindicated during cyclopropane or chloroform anæsthesia. and in cases of impaired renal function showing oliguria (where reduction in venal blood flow is undesirable). The standard solution is issued in boxes of six and fifty 2-mil or 4-mil Snapules and in box of five 16-mil ampoules. The emergency solution is issued in box of six 2-mil Snapules.

Penicillin V Products.—The DISTILLERS CO. (BIOCHEMICALS), LTD., Speke, Liverpool, 24, announce the availability of Distaquaine V-K 250 tablets. Each scored tablet contains the equivalent of 250 mgm. of penicillin V free acid (as potassium salt). The packs are a foil pack of twelve and bottles of 100 and 500. Also available is a bottle of 1,000 125-mgm. tablets of Distaquaine V-K 125, each tablet of which contains the equivalent of 125 mgm. of penicillin V

free acid (as potassium salt).—The Pharmaceuticals Division of Imperial Chemical Industries, Ltd., Fulshaw Hall, Wilmslow, Ches, have added to their range of medical specialities Icipen V (penicillin V) for use in the treatment of infections due to penicillin-sensitive organisms and as a prophylactic measure against recurrent rheumatic fever and before and after tonsillectomy or tooth extraction. The new speciality is available as Icipen V 300 tablets (bisected tablets each containing the equivalent of 300 mgm. penicillin V as potassium salt), and issued in tube of twelve and bottles of 100 and 500; and as Icipen suspension (dispersible granules from which a suspension is readily prepared when water is added to the bottle). Icipen suspension is pleasantly flavoured and contains in each teaspoonful 150 mgm, of penicillin V as calcium salt. The bottle contains 2 fl. oz. when dispensed.



REDESIGNED PACK: The Bronco interleaved toilet tissue (British Patent Perforated Paper Co., Ltd.), in its new colourful packet (see C. & D., May 31, p. 582).

New Hair Products. — M. & R. Norton, Ltd., 9 Park Hill, London, S.W.4, are marketing three new hair products as follows: Hanri sea foam shampoo, in show box of 3 doz.; Cavalcade liquid net aerosol hair spray; and Neutrogena shampoo in pint bottle.

New Lipstick Colours.—The Laboratoires du Dr. N. G. Payot, whose distributors in this country are Munro Vitarex, Ltd., 11 Old Bond Street, London, W.1, have introduced two new lipstick colours for the summer: Incarnat, which is described as a fresh tint reminiscent of the pulp of a cherry, and Grenade, which is said to "invoke the purple and gold of this Mediterranean fruit." The lipsticks are available in "instant" refill holder.

Leaf Shampoo.—Latest in the Silvikrin range of products issued by County Laboratories, Ltd., Honeypot Lane, Stanmore, Middlesex, is Silvikrin leaf shampoo, packed in a transparent envelope overprinted in black, red and gold. Each envelope contains two leaves (sufficient for one shampoo) coated with a new perfumed soapless shampoo containing Silvikrin.

Grey-silver Mascara. — Lancôme (England), Ltd., 14 Grosvenor Street, London, W.1, have added to their range of mascaras "the one colour that has been lacking": the grey-silver gris argent. The manufacturers state that

gris argent is "by no means restricted to grey-heads," but gives a soft, tawny, ash colour to brows and lashes of redheads and blondes. Messrs. Lancôme have also added another shade to their Maquivit series: Aurore described as "devoid of all pink, cool, serene and fresh looking."

TRADE NOTES

Sole Distributors.—Thornton & Ross, Ltd., Linthwaite, Huddersfield, have been appointed sole distributors of the Stanwood tobacco treatment, manufactured by Stanwood Proprietaries, Ltd., Bolton, Lancs.

Now Tax-free. — Weddel Pharmaceuticals division of the Union International Co., Ltd., Watsons Road, Wood Green, London, N.22, announce that their product Bilevac is now exempt from purchase tax.

A Service to Manufacturers.—R. P. Scherer, Ltd., 216 Bath Road, Slough, Bucks, offer to manufacturers of multivitamin products a triple guarantee: that all materials are analysed on delivery; that all mixes are analysed before encapsulation; and that all capsules are analysed before dispatch.

A "More Economical" Size.—Rexall Drug Co., Ltd., Loughborough, Leics, state that in response to numerous requests, they have introduced a size of Thru analgesic lotion containing two-and-a-half times the quantity of the present standard bottle at less than double the price.

Sole Distributors in Eirc. — William Freeman & Co., Ltd., Subaseal Works, Peel Street, Barnsley, Yorks, have appointed Evans Medical Supplies (Eire), Ltd., Distillery Road, Dublin, sole distributors in the Irish Republic of Suba Seal hot-water bottles, bathing caps and surgical sundries and for Suba Seal "natural" baby-feeding products. The policy will be to supply through chemists only.

"Pilot" Distribution Scheme. — Knights (Manufacturing Chemists), Ltd., Church Road, Perry Barr, Birmingham, 22B, are starting-up experimentally an "ethical" products wholesale department in a limited area. They have appointed Mr. G. V. Pow to manage the department. Mr. Alan S. Cox (managing director of the company) states that the department will stock about 5,500 new lines.

Long-acting Anabolic Agent. — Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2, direct attention to their medicinal speciality, Durabolin (norandrostenolone phenyl proprionate), described as "the most powerful non-virilising" long-acting anabolic agent. Durabolin is intended for patients with mammary carcinoma who may be beyond the reach of radiotherapy or surgery. Its palliative effect is so pronounced that patients under treatment with it are able to do light housework. Durabolin is presented as an oily solution for intramuscular injection. Its action is stated to be about fifteen times as powerful as that of testosterone propionate. The pack is a box of three ampoules (25 mgm. per c.c.).

Dog-food Coupon Scheme.—A coupon scheme that will enable dog owners to save fivepence on a purchase of any size of Lassie dog food is announced by Petfoods, Ltd., McIton Mowbray, Leics. During the latter part of June 6 million coupons, each valued at fivepence, and redeemable through normal retail outlets, are being distributed through the advertisement pages of Woman and Woman's Own. Amounting to almost a 50 per cent, reduction in price, that will cause a large increase in sales. Special backing cards for the panniers on the Petfoods self-service stand and a counter display unit in five colours are available. Coupons are being redeemed from the retailer by Messrs. Petfoods for cash, and a handling allowance is being made to stockists who participate in the scheme.

Now in Three Colours. — James North Distributors, Ltd., 54A Tottenham Court Road, London, W.1, announce a new development in their fabric-lined plastic household gloves, Glovelies. From June 1 the gloves are being made available in a range of three colours, sky blue flame red and three colours, sky blue, flame red and daffodil yellow, clear bright shades claimed to "fit perfectly" into modern kitchen colour schemes. A four-colour showcard available from the manufacturers illustrates the coloured gloves in relief, with a high gloss to simulate the plastic; a glove stand carries one glove in each size and colour to encourage customers to try on the various sizes for themselves. Each is supplied with qualifying orders, the necessary sample gloves being free of charge. At the same time Messrs, North are bringing out a new carton for Glovelies to match and to tie-in with the already familiar Northhands carton. The new carton is in acid yellow and black.

Marketing Changes.—Since their introduction to the British market five vears ago, products of Merrell research have been marketed by Riker Laboratorics, Ltd., Loughborough, Lcics. In an announcement issued jointly by Messrs. Riker and the newly-formed Merrell-National (Laboratories), Ltd., 20 Savile Row, London, W.1, it is confirmed that, from October 1, the products Frenquel, Kolantyl, Meratran, Merbentyl, Tace and Debendox are being taken over by the new organisation. Because of the success of the Merrell range in this country, and in view of the continuing expansion of Messrs. Riker's own research products, both companies consider it advisable to terminate their agreement and that Merrell should control their own marketing. The new company will also be introducing products from its affiliate, National Drug Co., a pioneer in enzyme and protein research. Founded in 1828, the parent Wm. S. Merrell Co., Cincinnati, U.S.A., is one of the oldest of the large American drug houses. Its first sale in England was made in 1875.

Trading Stamp Scheme Details, -Green Shield Trading Stamp Co., Ltd., 810 Holloway Road, London, have issued a detailed description of the operation of their Green Shield trading-stamp scheme (see C. & D., May 31. p. 583). Each shop that joins the scheme and issues the stamps offers the customer a cash discount, the customer receiving one Green Shield stamp for every sixpence spent. The shop may be in any trade, but only one shop of each type is selected in a particular area. The customer is given books in which to stick the stamps. A book, when full, is worth 15s. The customer goes to one of the Green Shield re-demption shops and chooses a gift to the value of 15s., or saves up more stamps for a more valuable article. They may also choose a gift from the company's catalogue and send for it by post. When a retailer enrols in the scheme the company undertake all the sales promotion necessary, including local and national advertising.

Bonus Offers

ROBERTS WINDSOR SOAP Co., LTD., Windsor. 5 per cent. stocking bonus. Closes July 31.

MANUFACTURERS' ACTIVITIES

Works Extension. — Steady progress has been made in the construction of new administrative and laboratory blocks at the factory of Sandoz Products, Ltd.. Horsforth, nr. Leeds, Yorks.

Drama Awards. - Ronson Products, Ltd., 352 Strand, London, W.C.2, manufacturers of the Ronson electric shaver, are awarding two annual cash prizes students of the Royal to promising Academy of Dramatic Art, it was announced on June 5. The prizes, to be known as the Ronson awards, and of fifty guineas value each, are being presented to a student of either sex in the summer term each year. The thought behind the awards is to help tide promising students over what is sometimes a difficult gap between leaving R.A.D.A. and securing employment in the professional theatre. Selection of the prizewinners is entirely at the discretion of the principal of the Academy.

£1-Million Laboratories. building of new pharmaceutical re-search and development laboratories. factory and offices for Smith Kline & French Laboratories, Ltd., Coldharbour Lane, London, S.E.5, has begun on a 9-acre site at Welwyn Garden City. Herts. The new establishment, which will replace the present one at Camberwell, London, is to cost £1 million and

has been designed to allow for both horizontal and vertical expansion. The structure will be of brick-clad reinforced concrete, and will have a coffered roof of advanced design, also in reinforced concrete. The company's chemical factory at Tonbridge, Kent, is continuing to manufacture. In 1958 the company is again sponsoring closed-circuit colour television for the medical profession. Programmes have been arranged to be given in Birmingham at the British Medical Association's annual meeting and in London and Southampton. The demonstration is being given by a British-built mobile unit now being equipped by the Marconi Wireless Telegraph Co., Ltd.

BIRTHDAY HONOURS

THE following awards are included in the Queen's Birthday Honours' published on June 12:-

Knight. — Brigadier John Smith KNOX BOYD (president of the Royal Society of Tropical Medicine and Hygiene).

Companion of the Bath (C.B.),—MR. GEORGE EDWARD GODBER (deputy chief medical officer, Ministry of Health).

Commander of the Order of the British Empire (C.B.E.).—Mr. HENRY SMITH HOLDEN (forensic science adviser Home Office) and Mr. Francis Ber-Tram Reece (lately chairman, Poisons Board, Home Office).

Officer of the Order of the British Empire (O.B.E.).—MR. REGINALD WIL-

LIAM RULE (chairman, Kent and Canterbury Executive Council), and MR. ERIC SCOTT (Federal president of Australian Federated Pharmaceutical Service Guild of Australia).

British Empire Medal B.E.M.). — Mr. George Mat-THEW NOTT (su-



Mr. Eric Scott

pervisor, H. W. Carter & Co., Ltd., Coleford, Gloucester).



DISTINGUISHED CALLERS: The new Eastleigh, Hants, laboratories of William R. Warner & Co., Ltd., received a visit recently from Lady Pamela Mountbatten, Viscount, Miss Flora and Viscountess Lifford, here seen with Messes, E. J. Holder (director of production), P. G. E. Warburton (managing director) and K. G. Hockridge (production manager, finishing department).



AN ENTERPRISE BUILT UP ON STANDARDISED DRUGS

Centennial year of E. R. Squibb & Sons

Or, Edward Robinson Squibb (1819-1900).

IN 1858 Dr. Edward Robinson Squibb opened—with the support of physicians and pharmacists—a small laboratory on

them was so unreliable, and so potentially dangerous, that they refused to use it.

Dr. Squibb determined to change that situation. In 1852, with naval approval, he persuaded the United States Congress to appropriate funds for the establishment of a small naval laboratory for drug research. In that laboratory he claborated a process for the

in which Dr. Squibb's eyelids were destroyed and other injuries suffered, leading eventually to the amputation of one of his hands. Friends in pharmacy and medicine rallied round to give him financial (and moral) support in rebuilding his laboratory and it arose again to become in due course the world-wide organisation it is today.

The production of pure ether (it is





Left, the present Squibb laboratory, dominating the Brooklyn water-front. Right, the Squibb Institute for Medical Research.

the Brooklyn waterfront of New York. He was prompted to do so by his carly experiences (as recorded in his diary) as a young and newly qualified doctor serving in the United States Navy. There he saw many surgical operations performed without benefit of anæsthesia because, although anæsthetic ether was known to the surgeons, the quality of the material available to



The five-story Brooklyn building that housed the first Squibb laboratory from 1858 to 1862.

manufacture of a safe, uniform, controllable anæsthetic ether. His method involved the invention of a continuous steam-distillation apparatus. Refusing to patent the process, Dr. Squibb made it available immediately to the medical world.

Next he turned his attention to the production of drugs standardised for purity and strength. In his small laboratory at Brooklyn Naval Hospital, New York City, he was handicapped by having to carry out the work in his spare time while still serving as physician and surgeon. He nevertheless found time to develop testing procedures to insure the uniform strength and purity of every drug that left his laboratory, certifying them with a label that he personally signed. In time many physicians began to refuse to accept medicinal products without the signature.

Dr. Squibb next realised that the practice of pharmacy in civilian life was also haphazard, and the grief of a mother who lost her child because arsenic had been used as a preservative in a cough remedy made a profound impression upon him. It brought him to the conclusion that a private drug laboratory might make standard medicinal preparations available to everyone. That conclusion found expression in the enterprise that is celebrating its centenary this year. Within a few months of its establishment, the laboratory was unfortunately gutted by fire,

still being manufactured by essentially the same process) was the first of many pharmaceutical advances evolved in the Squibb laboratories which have, for example, been in the forefront in developing isoniazid (Nydrazid) and in standardising curare. In 1940 the company began the large-scale production of penicillin, and has since, through the Squibb Institute for Medical Research, evolved other antibiotic specialities such as nystatin (a remedy for vaginal trichomoniasis). The company's research and financial support helped prove the value of rauwolfia in reducing high blood pressure and in treating psychiatric and psychosomatic disorders.

Standardisation remains a cardinal principle of the Squibb organisation, and a quality-control division exists to ensure that standards are maintained.

Medicine's story in the past hundred years might have been very different without the work of Dr. Squibb, whose laboratories claim to have introduced into drug manufacture the idea of standardisation. The laboratories, now part of the Olin Mathieson Chemical Corporation, now employ nearly 10,000 people throughout the world. There are Squibb manufacturing plants in Argentina, Brazil, Canada, Colombia, Cuba, England, Uruguay, Mexico, Peru, the Philippines, and Turkey. In all other countries of the free world there are distributors and agents.

PACKAGING NOTES

A New Sales Journal.—Every aspect of fibreboard packaging is covered in a new quarterly sales journal, Case, produced by Reed Corrugated Cases, Ltd., Brentford, Middlesex, and distributed to present and potential customers of the company.

"Zip-opening" of Cartons.—P. P. Payne & Sons, Ltd., Haydn Road. Nottingham, manufacturers of the Rippatape cotton self-adhesive tape used in the company's carton-opening system



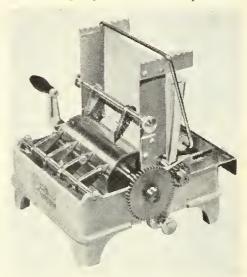
(see illustration) have recently developed a machine for the speedy application of the tape to the carton whilst the carton is being manufactured. Messrs. Payne claim that the Rippatape system is labour-saving, that it prevents danger from the use of knives, and that it eliminates damage to contents on opening.

Two New Tube Caps. — Increased efficiency at lower cost is claimed for a new vibration-proof polythene cap (No. 115) for use on collapsible tubes that has been introduced by Venesta, Ltd., Vintry House, Queen Street Place. London, E.C.4. The cap is designed on the standard octagonal pattern but both wad and wadding have been eliminated (thus reducing cost). It grips the nozzle of the tube with great tenacity creating a seal between cap and nozzle that is

"virtually perfect." Messrs. Venesta have also produced a plastic wadless cap that efficiently removes a collapsible tube membrane. The "cutter" cap has a top recessed from the flat base of which protrude two pointed lugs shaped to provide cutting edges. The cap, after having been unscrewed from the tube is reversed and pushed back on to the nozzle, and the edges of the cutting lugs pierce the soft metal membrane. The cap is turned through 180° so that the lugs cut all the way round the membrane, and when the reversed cap is withdrawn the severed membrane comes away with it, leaving a large clean-edged orifice. The company's Vendrum has been specifically designed for packing products for export. The top and base are of 26 B.S. gauge lacquered steel stitched on to solid fibre flanges. The use of metal for the flanged lid and base gives strength to the drum where it is most likely to receive rough treatment and the steel heads have been designed to enable the drums to be safely stacked. The interior is free of any protrusions such as rivet points or lining hoops which could restrict the use of the container by narrowing the opening, or damage any liners used. Foil may be used to form a moisture barrier by covering the inside or outside fibre walls of the drum or by being inserted between the plies of the fibre board. The capacity of the new export drum may be varied to suit manufacturers' requirements within a content range of 56 to 168 lb

Automatic Label Gumming.—A new range of label-gumming machines—the Oyster Imp range—is claimed by Leon Davis & Co., 9 Laurence Pountney Lane, London, E.C.4, to bridge the gap between hand-labelling of few labels and fully automatic labelling a long series. The new machines dispense one label at a time, actually "glueing" it as it passes through the machine, as against "wetting" an already gummed label. The Oyster Imp No. 1, hand-

operated, is 11 in. deep by $10\frac{1}{2}$ in. wide by 10 in. high. It takes labels up to 6 in. deep by 6 in. wide. Special at-



tachments may be provided for dispensing shaped or specially long labels, and various glueing to suit specialised applications may be used, the amount of glue applied being varied by thumb The magazine of labels is easily screws. replenished, a balanced roller at the back being raised and the labels simply popped in. Fced and delivery are conpopped in. Feed and delivery are constant and even, and cleaning and washing-up are simple, the whole machine being dismantled in two to three minutes. The No. 2 model is mounted on a $16\frac{1}{2} \times 15\frac{3}{4}$ in. base board. It is fitted with a fixed-speed fractional-horse-power electric motor. fractional-horse-power electric motor whose speed may be altered by sub-stituting gears to suit requirements. The No. 3 model, also electrically operated, is mounted on a $16\frac{1}{2} \times 20$ in, wide baseboard. Gear ratios are changed in the same way as for the No. 2 model, in addition a variable resistance enables the motor speed to be varied too. Both electric models have pushbutton control.





VARIED PRODUCTS OF A MANUFACTURER: At lcft, the body of an aerosol container, given its coating of enamel ready for overprinting with a maker's legend, and still to be completed with valve and contents. The manufacture of the containers—an extrusion product—has evolved logically from the making of collapsible tubes by Universal Metal Products, Ltd., Pendleton, Salford, Lancs (see C. & D., February I, p. 122). At right, examples illustrative of the variety of tubes, nozzles and caps called for, ranging from a simple threaded neck to a hypodermic syringe. Above: Tube caps of assorted colours and shapes and produced by two processes. Those in the long row are of "thermosetting" resin. The three in front are "thermoplastic."



Lederle's new
superior corticosteroid
created to minimize the
major deterrents to all previous
steroid therapy

Ledercort

TRIAMCINOLONE (9 alpha-fluoro-16 alpha-hydroxyprednisolone)

LEDERCORT triamcinolone shows great promise as the agent of choice for all diseases ordinarily held to be improved by corticosteroids.

It offers increased potency for greater clinical effectiveness, and fewer side effects.

In allergic disorders and dermatoses, Ledercort triamcinolone dosage averages one-half that of prednisolone. It provides prolonged therapy at less cost, with easier patient management.

INDICATIONS

Rheumatoid arthritis; bronchial asthma; dermatoses; allergic disorders; other conditions amenable to therapy with corticosteroids.

Oral tablets of 4 mg., scored for easy division. Bottles of 30 and 100.

* REGD. TRADEMARK



LEDERLE LABORATORIES DIVISION

Cyanamid OF GREAT BRITAIN LTD., London, W.C.2

Evans Medical Supplies Ltd announce

the immediate availability in the United Kingdom of



the sodium derivative of 3-(

α acetonylbenzyl)-4-hydroxycoumarin (warfarin sodium)

An Oral Anticoagulant

PRESENTATION

Tablets of 5 mg. (RED)

Containers of 100 tablets
Frice to hospitals and retail pharmacists—
40/- (plus Purchase Tax 30°₀)

Tablets of 3 mg. (BLUE)

Containers of 100 tablets Price to hospitals and retail pharmacists— 25/- (plus Purchase Tax 30%)

EVANS MEDICAL



SUPPLIES LIMITED

SPEKE, LIVERPOOL 19 (HUNTS CROSS 1881)

London Office: Ruislip, Middlesex (Ruislip 3333)



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565
TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

All Well Again

As was indicated in our correspondence columns last week, a number of letters sent in to us from chemists with photographic departments were withheld from publication for the reason that, subject to confirmation, the basis on which they had been written no longer existed. That basis was, of course. the proposedindeed actual-experimental distribution of Ilford photographic film through the branches of F. W. Woolworth & Co., Ltd. We are happy to have had confirmation that the hint we had was authoritative, and to be able to put on record that no more films are being sent in to Woolworth's stores by Ilford, Ltd. The news is all the more pleasurable because that company's products are universally recognised to maintain highest standards and to represent British enterprise at its best; while the relations between the company and chemists and photographic dealers have been cordial and friendly over a long period of years. So promptly has the company acted to meet the trade's representations that retailers who reacted with similar promptness to the first news of the "experiment" by taking action (in ways which there is no point in specifying) will, we are certain, be equally quick to respond to the company's amende honorable. In so doing they will be doing a service to themselves and confirming the wisdom of the manufacturers in putting right what was undoubtedly a mistake from the trade's point of view.

Trends in Pharmacology

It may be a disquieting thought—at least to the students concerned—that those qualifying in pharmacy this coming month may find a large part of their knowledge modified and even out-of-date within the next five to ten years by new discoveries in pharmacology. However, similar conditions, not always acknowledged to exist, have prevailed to a greater or lesser extent for some time. Mentioning the point does, however, serve to emphasise the ever-accelerating pace of the technological revolution. In the days of Ehrlich medical thought was revolutionised by his imaginative chemical and biochemical researches and discoveries. The waves of discovery Ehrlich set in oscillation eventually swept away the static concepts that had impeded advances in medicinal chemistry. The discovery of the sulphonamides shortly before the 1939-45 war founded a new science of chemotherapy. Many of us looked forward to an era in which, provided we learned the rules, we could summon new drugs into being with almost less trouble than the tailor takes in measuring us for a

suit. The measurements of the disease appeared to be known and all that was needed was to find the drug that would fit it like a well-cut garment. That, alas, was too easy a hope, and one that has not been realised. The dream of achieving a therapeutic purpose by playing with methyl groups or substituting alternative chemical nucleii has usually remained but a dream. But a promising new line of approach to specific drug effect has been drawn by Professor Albert (see p. 643), who has shown that chemotherapy is controlled by pharmacodynamics. Dr. Albert's approach suggests that a drug's action may be defined in terms of ionising constant, chelating constant, receptor factor, and so on. Those technicalities may tend to alarm pharmacists of the old school, but let them not be discouraged. It is worth the effort to investigate a little further, and to try to understand the new discoveries. On closer examination the new trend in pharmacological research does not seem quite so novel. It is in line with the fundamentals of the craft. A drug to be effective must be made available in a suitable medium and provided in a form determined by the site and characteristics of the disease. The new trend in pharmacology follows that pattern, one which we all know from the earliest days of our apprenticeship. What Professor Albert's lecture does is outline the more accurate means now available for measuring the elements necessary to provide an effective medicinal agent.

Tax Allowances for a Director

Under section 160 of the Income Tax Act, 1952, payments in respect of expenses made by a company to its directors or employees, are treated as, *prima facie*, part of the emoluments of the office. The director is, however, entitled to a corresponding deduction from taxable income if he can establish that the expenditure was incurred *wholly*, *exclusively and necessarily* in the execution of his office or employment. The deduction has to be claimed for.

Similar provisions in section 161 relate to benefits in kind, such as accommodation services and supplies provided by a company for its directors. The value of the benefit must be included as part of the emolument unless the benefit is proved to have been used solely in the performance of the duties of the office or employment. Allowance of expenses, and the provision of benefits in kind, are common features of many businesses, and a tightening by the Revenue of control over the grant of such tax reliefs has raised questions as to the circumstances in which the relief is granted.

Test cases include a recent one in which the taxpayer was the managing director of three trading companies. In the performance of his duties (which were full-time), the director made numerous journeys to places in Scotland and in England for the purpose of meeting customers or to supervise production. For a number of years the companies had made payments to him in respect of expenses, the payments being either by way of lump sums, or as reimbursement for recorded expenses. One of the companies provided a motor-car for his exclusive use. The director entertained customers, and the guests sometimes brought their wives, though business was always discussed. The question arose whether the payments made to him for those purposes were taxable as part of his emoluments. The taxpayer argued that they were necessary conditions to enable him to carry out his duties. The Revenue authorities did not accept those contentions, principally, it seems, on the ground that the evidence was inconclusive. They were, however, prepared to allow some part of the expenses. The Commissioners accepted the Revenue's contentions, but the expenses that were to be allowed were not quantified. The taxpayer appealed to the court of session. He argued that either the whole of the expenditure should be allowed as deductions, or alternatively that the case should be remitted to the Commissioners so that they should specifically apply their minds to the issue what items were and what

were not allowable as deductions. The court of session refused the appeal, the Lord President stating that the failure to obtain any express findings as to the deductibility of any particular items was not the fault of the Revenue or the Commissioners, but was attributable to the insufficiency of the taxpayer's own evidence. In other words, the onus is always upon the taxpayer to justify his expenses, and nothing short of the clearest evidence will assist him in establishing the right to a deduction. Hence the necessity of treating expenses as any other business charge.

Onward from Galen

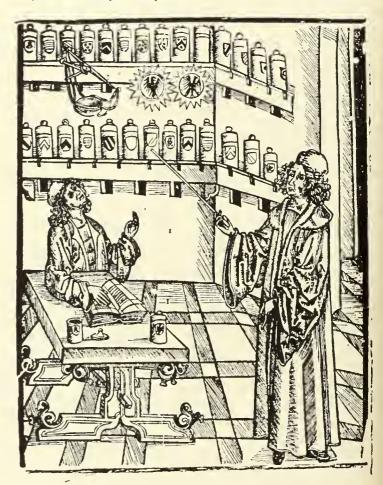
A CURRENT CAUSERIE

A company in the United States has come up with a new use—the manufacture of mushrooms—for shut-down penicillin plants, states the Oil, Paint and Drug Reporter. Involved is a newly developed method of growing mushrooms to full commercial size in vats of pure, aerated cornsteep liquor nutrient fluid. The process, which takes just seventy-two hours, is similar to that used in the manufacture of penicillin. The mushroom (which is to be trademarked) "is stemless, full bodied and versatile. It can be cooked, dried, powdered, canned and frozen without loss of flavour or vitamin content."

SEVERAL important contributions to chemistry, physics, pharmacology, and technology were made by Robert Hare. who died at Philadelphia, U.S.A., a century ago on May 15. Hare was appointed professor of chemistry at the University of Pennsylvania in 1818. He devised a means of denarcotising laudanum and invented the oxyhydrogen blowpipe, which led to the foundation of the platinum industry and to the development of the limelight. His work on the constitution of salts anticipated the discoveries of Ira Remsen. Hare was the editor of Andrew Ure's *Dictionary of Chemistry* (1821).

A UNIQUE collection of medical art by Rembrandt, Daumier, Hogarth, Toulouse-Lautrec and other great masters. Entitled Ars Medica it is being exhibited this summer at various hospitals, medical schools and meetings in England, Scotland and Wales. The collection is composed of famous and rare pieces of graphic art depicting the practice of medicine over the centuries. The scope of the exhibition extends from medical illustrations designed for teaching purposes such as those of Vesalius, Wechtlin and others-to portrayals and critiques of medical procedure in the past. Owned by the Philadelphia Museum of Art, the exhibition is being presented by Smith, Kline & French Laboratories, Ltd., Coldharbour Lane, London, S.E.5, under whose grant the collection was assembled in 1952 by the Curator of Prints (Carl Zigrosser) at the Philadelphia Museum. Ars Medica received wide acclamation on its tour in the United States and last year in Canada. The tour in Britain started on June 2 at the Royal Society of Medicine, Wimpole Street, London. A "pharmacy panel" includes six prints entitled "Pharmacy, with Doctor Selecting Drugs"; "Preparation of Theriac"; "Preparation of Medicinal Oils"; "The Apothecary": "Ride to Rumford" and "Apothecary and Pharmacist." The print illustrated, "Pharmacist." Drugs "(sixteenth-century Germacy, with Doctor Selecting Drugs" (sixteenth-century German School), gives some idea of the interior of a pharmacy around 1500. It is believed that the doctor often did not write out a prescription but went in person to select the ingredients. "The Apothecary," a woodcut by Jost Amman (Swiss-German, 1539-1591), shows a typical interior and illustrates the economic status of pharmacy toward the end of the sixteenth century. The decline of polypharmacy caused the druggist's business to shrink; and he tended to supplement it by dealing also in sugar, confections, and spices, which

were often called "colonial wares." On the shelf, beside the jars and drugs, are the characteristic conical shapes of sugar "hats," the form in which sugar was sold in Europe almost to the end of the nineteenth century. The verse by Hans Sachs, of Meistersinger fame, may be translated as follows: "I have in my pharmacy many pleasant-tasting drugs and also confections made of sugar and spice; also I prepare purges and enemas, and can compound various cordials to strengthen the infirmities of the sick-all this by the doctor's advice on the basis of water casting." "Ride to Rumford," a coloured etching after Thomas Rowlandson (English, 1756-1827), London, 1802, furnishes a touch of broad humour, characteristic of the artist's lusty and rollicking style. The shop interior is of a country apothecary with veterinary practice, around the beginning of the nineteenth century. A stout agonised lady, whose horse looks through the door, raises her riding habit to expose a blistered posterior, on which a kneeling apothecary is about to place a plaster.



"Pharmacy, with Doctor Selecting Drugs," a sixteenth century German print in the Ars Medica touring exhibition organised by Smith, Kline & French Laboratories, Ltd., London, S.E.5.

Philadelphia Museum of Art

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

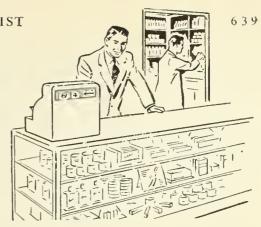
E. C. TENNER

IFTY years ago an antiseptic tooth-cleaning paste was an innovation. By skilful advertising and formulation a large market in such preparations was gradually created. During most of the intervening time the humble tooth-brush has served the pastes almost unsung, but in the past dccade the public has been persuaded to demand one or other of about half a dozen proprietary brands of tooth-brush. The fashion has changed from bristle in bone (hand-made), to nylon in plastic (mass-produced). at a consequent reduction of price. Yet the tooth-brush has throughout those changes been regarded till now simply as the means of applying the glamorous tooth-paste. True, the combinations of shapes of heads and handles has become legion, but they have come to be regarded merely as fads and matters of personal preference. Now a manufacturer offers us tooth-brushes "specially treated to kill germs that come into contact with the tufts. AND THEY RE-MAIN ACTIVE AGAINST THESE GERMS THROUGH-OUT THE NATURAL LIFE OF THE BRUSH." Docs that sound the death-knell of the pastes?

Tooth-paste and soap manufacturers are at present using advertising stunts related to special cheaper packs of their preparations. Limited quantities only of those special packs are available, and the volume of retailers' profit is the same in a sale of the cheaper pack as for a sale of the standard pack at the standard price. The rub comes when a customer refuses to buy a standard pack and takes her custom to the shop where the cheap or "cut-priced" line is available. The practice is extending, so that we are now being asked to sell special packs which include a free gift, a small size of another preparation. What advice does the National Pharmaceutical Union have for us? Is anything being done to bring home to the tooth-paste and soap manufacturers how distasteful those schemes, which cause unwarranted discrimination between retailers, are to pharmacists?

New Boy

The Pharmaceutical Society's new Council is safely elected. There is one "new boy," and in spite of that I do not think we shall become aware of any new thinking in the Council room at No. 17. The more I see of Branch Representatives' meetings the more I am in favour of much fuller reporting of the Council debates and of Committee reports. The classic method by which the Council keeps the membership informed on pharmaceutical affairs has broken down. Members of Council travel hundreds of miles to address and to hear only a small fraction of the members of any Branch once or twice a year. Successful Branch meetings have virtually ceased to exist. It is urgent that some other method of keeping in touch should be instituted by the Council. Full reporting of Council proceedings, with voting lists of divisions, is the simple alternative. It would foster interest and, I firmly believe, would bring fresh life to the Council election and the Branches. It has become all too painfully clear that candidates for the Council expect that the Council they hope to join already has all the right answers, which will be imparted to them when they receive that crowning reward for a blameless pharmaceutical career: Councillorship. That each of them ought to possess the simple qualitics of leadership does not seem to occur to them at all.



Foremost in Importance

There is no doubt at all that at the recent Branch Representatives' meeting the most important resolution was that of the Swansea and West Glamorgan Branch: "That it is the opinion of this meeting that the Council of the Society should use its best endeavours to ensure that the supply of Drugs and Medicines for human and animal consumption should be restricted to pharmacists." It is incidentally worth noticing that the proposer and seconder laid their case before the meeting with such exemplary clarity that after a very short debate indeed the resolution was carried with everyone voting and in no doubt about it. I was only able to spot one vote against the motion. Here was some of the "new thinking" that can lead pharmacy safely through the second half of the twentieth century, and indeed into the third millennium if the world should last so long.

Of quite opposite kind was the Huddersfield and District resolution, admitted only by a small majority: "That it is the opinion of this meeting that we deplore the economic need to issue medicines in bottles which have been returned from sick persons, owing to the impracticability of thorough cleansing and sterilisation prior to reuse and suggest that the Society's laboratories investigate the effectiveness of the methods used." What I think is deplorable is that pharmaceutical chemists, of whatever vintage, should thus cry their own ignorance in the face of the profession. What I think is even more deplorable is that pharmacy should be practised anywhere in the conditions that seem to be reflected in that resolution. If the Council should be asked to do anything it should be asked to take steps to stamp out such malconditions. I have always been one who has encouraged the public to return their empties to me for reuse. Any bottles I cannot clean are thrown away, but the others, after soaking, cleaning, twice rinsing inside and outside, and drying are used again with new closures in full confidence. Of course I need staff for that work, and preferably two good sinks, with lashings of really hot water and detergents, bottle brushes and a patent gadget for internal rinsing with clean water. A drying rack is a luxury, but the bottle-cleaning department pays handsome dividends. It is to be hoped the Council will not waste the time of any research department working out a routine for bottle washing that would probably be "scamped" anyway by those who needed instruction of that sort.

Enviable?

June is always a time of year when I feel how much easier my life would be, and how much more lucrative per effort expended, if I were a locum-tenens pharmacist. It seems I could work for about ten months of the year at a weekly salary of at least £20. I could spend the other two months cruising with no worry about finding a locum! While working, my travelling and living expenses would be paid, and there would be "adequate supporting staff" to do the work of the pharmacies I was supervising. That sounds like pharmaceutical Heaven, but I'm sure there must be a special set of trials and tribulations for locums. I wonder what they are! Chipped tea-cups, a badly arranged dispensary, or a locum G.P. who prescribes out-of-stock proprietaries?

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN REPORT ON REPRESENTATIVES' MOTIONS

No applications for registration as "student" under new regulations

T a meeting of the Council of the Pharmaceutieal Society on June 3 and 4 the Council eommittees reported on their first consideration of resolutions passed at the Braneh Representatives' meeting held on May 15 (see C. & D., May 24, p. 560).

It was agreed that the question of short titles for official drugs should be the subject of an approach to the British Pharmaeopæia Commission with a view to discussing the problems involved. The Public Services Committee agreed that efforts should be made at every opportunity to ensure that the supply of drugs and medicines be restricted to pharmaeists. The Law Committee noted that the resolution on strengths and quantities eoncerned the form of the preseription required by law in respect of restricted drugs. The Council adopted the Committee's recommendation that representations should be made to the Poisons Board seeking a relaxation of the requirements of Rule 12 to give authority to the pharmaeist to make any necessary alteration or addition to the prescription to faeilitate its dispensing, provided the prescriber was consulted and had authorised the amendment. The Council also accepted a recommendation from the Law Committee that inquiry be made of the Home Office eoneerning police procedure in eases where the name of a medical practitioner had been removed from the Medical Register. The suggestion that complete lists of persons whose Dangerous Drugs authority has been removed should be published in the Society's journal at more frequent intervals was eonsidered and it was decided to refer that part of the resolution to the Publications Committee. With regard to the resolution on assistants-in-dispensing the Law Committee decided that, as it was in line with Council policy, no action upon it was ealled for. The Establishment and Organisation Committee agreed to ask Dr. Capper to report on the suggestion eoneerning sterilisation of bottles. The Publications Committee, after discussing the request for refresher eourse articles in the Society's journal, postponed further consideration of the resolution pending a report by the Editor. The secretary and registrar was asked to submit a report to the Establishment and Organisation Committee on the subject of branch grants.

A Branch Discontinued

A letter was received from the secretary of the Breeonshire and Radnorshire Branch reporting a meeting of the Branch held on May 11 at which seven members had been present, and which recommended discontinuance of the Branch. The Establishment and Organisation Committee agreed that the Branch should be dissolved, the area to be distributed among the neighbouring Branches.

Storage of Drugs in Hospitals

It was reported that a meeting with the General Nursing Council, to reach understanding on the comments made by their inspectors after the inspection of hospitals for nurse training, had been arranged for June 11. The Council agreed that the Society should be represented by Messrs. H. S. Grainger (Public Services Committee) and D. F. Lewis. The Law Committee received a letter from the general secretary of the Royal College of Nursing expressing concern at the possibility of mistakes in the administration of drugs such as procaine and adrenaline and suggesting that the possibility might be lessened if more prominence were given on the label to the name of the drug rather than that of the maker. It was agreed that the matter should be discussed with representatives of the College.

Allowance for Assistants-in-dispensing

A eopy was received of P.T.B. Circular 82, issued by the

Whitley Councils for the Health Services, Professional and Teehnical Council "B" on May 20, recording agreement to the introduction of a new allowance for certain assistants-in-dispensing not being under the direct supervision of a pharmacist (see C. & D., May 31, p. 574). On the recommendation of the Public Services Committee, the Council agreed that the registrar should reiterate the Society's objections to the definition of that class of employee.

Qualifying Examination Regulations

The Council agreed on the recommendation of the Education Committee that the regulations for the Pharmaceutical Chemist Qualifying examination adopted by the Council on February 5 for persons registered as "Student" on and after March 1, 1958, should be altered by the addition to Regulation 20 of the following words:—"Similarly any person who produces evidence satisfactory to the Council that he has passed an examination approved by the Council shall, subject to registration as a student, be deemed to have satisfied the Examiners in Part I or Part II as the ease may be. The fee payable for the acceptance of evidence shall be three guineas for Part I and five guineas for Part II." It was also agreed that a copy of the resolution be submitted to the Privy Council for approval.

The Education Committee received the report of the Education Committee of the Aberdeen Pharmaceutical Association on the competition for the Petric Trust Bursary for 1958, and recommended that the Bursary with a copy of the British Pharmaceutical Codex should be awarded to Alan Johnston, 18 Hilton Place, Aberdeen. It was agreed that the thanks of the Council should be conveyed to Mr. J. Spence for having acted as examiner, and to the Aberdeen Pharmaceutical Association for arranging the examination

The following were appointed examiners for the entranee examination for 1958: Botany, J. Roberts; zoology, G. F. Friend; ehemistry, Isobel Agnes Smith; physics, J. Kyles.

Mr. Paul Blane was elected an honorary member of the Society, and M. Michel Laurent a corresponding member.

On the recommendation of the Education Committee, the Council designated Mr. John Rae a Fellow of the Society under by-law III.3. The Assessors report showed that the evidence submitted by Mr. Rae in support of his application consisted of papers published over many years upon investigations into the properties and methods of analysis of pharmaceutical preparations.

On the recommendation of the Education Committee it was agreed that Mr. D. F. Baldwin, Clifton, Bristol, should be asked to represent the Society on the science advisory subcommittee of the Regional Council for Further Education for the South-west, in succession to Mr. Boucher.

The Council approved a recommendation from the Public Services Committee that Mr. R. H. Williamson, Cowbridge, should be re-nominated for election to the County Health Committee of the Glamorgan County Council for the year.

President Re-elected

Mr. Donald W. Hudson was re-elected *President* of the Society for 1957-58 (see C. & D., June 7, p. 599).

MR. C. W. MAPLETHORPE, nominating Mr. Hudson for re-election, said that, during his year of office, the president had had to take on responsibilities which, perhaps, had not fallen to many other presidents of the Society. In the international field Mr. Hudson had visited Canada on the Society's behalf, and even more important, he had visited Ghana and Nigeria on two oceasions and had laid the foundation for an understanding between the Pharmaceutical Society of Great Britain and the Societies and teaching

institutions in those two new member countries of the Commonwealth. Mr. G. H. Hughes, who seconded the proposal, congratulated Mr. Hudson on being in the happy position of having so well earned the confidence of members of Council that they thought him worthy of election for a second

year.

MR. HUDSON said he was deeply conscious of the honour done to him and of the responsibility it entailed. It was true that he had done certain things that perhaps other presidents had not done, but the only reason for that was that the Council had given him the opportunity. He felt very privileged because he had been given the opportunity not only of serving the Council and the pharmaceutical profession, but also perhaps, in a small and humble way, of serving the country.

A motion by Mr. T. Reid, seconded by Mr. E. A. Brocklehurst, re-elected Mr. C. H. Hughes *Vice-president*. Mr. W. S. Howells was re-elected to a twelfth year as *Treasurer* of the Society. Sir Hugh Linstead and Mr. F. W.

Adams were formally reappointed Secretaries.

Benevolent Fund and War Aid Committee

The Benevolent Fund Committee's report showed that grants amounting to £349 had been made to seven widows, two members. and one dependant. Recommendations for grants amounting to £715 were approved. A grant of £50 from the Orphan Fund was made; two applications for assistance were deferred. From the War Aid Fund two grants amounting to £312 were authorised.

A legacy of £100 to the Benevolent Fund from the late

Mr. Herbert England of Harrogate was reported.

It was reported that the Essex Pharmaceutical Committee had agreed that the gift to Birdsgrove House in memory of the late Mr. G. F. Deeth should be used for the purchase of flowering shrubs and a garden seat; and that the Cheltenham and District Branch had agreed to the purchase of rhododendron bushes in memory of the late Mrs. Wickham, and had asked for a plaque to be provided to record the gift. The Committee adopted a suggestion of Mr. Nutter Smith after a visit to Birdsgrove House that the names of some of the trees and flowers in the gardens be indicated in situ. The warden's report showed that in the month to May 16 forty guests had stayed at Birdsgrove House for an aggregate of 57 weeks, against forty-seven guests and 58 weeks in the corresponding period of 1957. Eleven contributions, amounting to £62, had been received from guests to supplement weekly payments. Gifts in kind were also recorded.

The Registers

It was reported that there had been no registrations as "student" since May 1. Four former members had their names restored to the Register and the Council approved recommendations for the restoration of two applicants whose names were removed more than ten years ago. Approval was also given to the reciprocal registration of two persons under section XIX (14) of the Society's bylaws, and of seven persons under section XIX (16).

In April the Society's inspectors and agents visited 1,012 authorised sellers, six listed sellers, and 222 drug-store proprietors and similar traders. Six cases of alleged infringements of the Pharmacy Acts were considered, and appropri-

ate action was taken.

Cancellation of Peebles Congress

SIR HUGH LINSTEAD reported that, on account of public events in France, it had been found necessary to cancel the arrangements for a Franco-British Pharmaceutical Congress at Peebles. The Council asked for the sympathy of British Pharmacists to be conveyed to their French colleagues in the circumstances that made that step necessary. The president expressed the hope that it might be regarded as a postponement rather than a cancellation, and that their French friends would come to Scotland the next time a Franco-British Congress was held.

By-law on Issue of Receipts

THE SECRETARY AND REGISTRAR reported that no observations had been received on the proposal for the alteration of Clause 4 of section X of the Society's by-laws, of which notice had been given on March 15. The amendments to the by-law to be submitted for Privy Council approval are: Section x—in clause 4 for the words "checking each receipt" substitute the words "except where payment is received by cheque, in which case a receipt shall only be given if specifically requested."

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Meeting at Londonderry

THE Council of the Pharmaceutical Society of Northern Ireland made its annual visit to Londonderry recently, meeting in the Northern Counties Hotel. THE PRESIDENT (Mr. George McIlhagger), who was in the chair, welcomed Messrs. J. A. Brown (vice-president, Ulster Chemists' Association) and W. J. Moffett (secretary).

Research Work by a Member

The Council agreed to grant the application of Mr. James Ian Valentine Marshall, 15 Queensfort Park, Carryduff, co. Down, for the restoration of his name to the register of Pharmaceutical Chemists for Northern Ireland. The Secretary (Mr. William Gorman) reported that he had received from Mr. P. J. Campbell, B.Sc., M.P.S.N.I., a letter outlining the work he had carried out during the past two years and stating that he had submitted a thesis for his Ph.D. Mr. Campbell had been awarded a research grant by the Medical Research Council. The President said that Mr. Campbell had the good wishes of every member of the Society for his success, and the secretary was instructed to send him the Council's congratulations.

It was agreed to affix the Society's seal to the certificate

of qualification of Mr. Norman William Smyth.

After the Council meeting, members of the Londonderry and Strabane Chemists' Association and their wives were guests of the Council when the party toured parts of Donegal. Tea was taken at Port na Blagh where THE PRESIDENT, in a brief speech, expressed the pleasure of the Council at having the Londonderry and Strabane chemists as their guests. MR. S. E. TAYLOR replied on behalf of the guests, who included Mr. V. G. McIlwee (a member of the Council of the Pharmaceutical Society of Ireland), Mrs. McIlwee, and Mr. F. L. McGee, Letterkenny.

RECENT RESEARCH

BORAX AS CORROSION INHIBITOR

RESEARCH into the use of borax as a corrosion inhibitor in antifreeze solutions has contributed to the preparation of the draft British Standard No. CY(FHC)5100 published on May 8. The research has confirmed that in most conditions where ferrous metals are immersed in aqueous ethylene glycol antifreezc solutions, borax will protect them from corrosion almost indefinitely. It was also found that borax is effective in conditions which cause breakdown of other corrosion inhibitors. Laboratory tests as well as preliminary field trials have shown that borax in these solutions is a satisfactory corrosion inhibitor for typical aluminium alloys as used for cylinder heads and other parts of the cooling system of cars. Both borax decahydrate and pentahydrate are soluble in ethylene glycol, making additions of those materials a simple matter. The recommended quantity to be added is 3 per cent, by weight of ethylene glycol but the amount is not critical and can be subject to some variation without adversely affecting the protective action. Further details and technical information on the use of borax in corrosion inhibition are available from Borax Consolidated, Ltd., Carlisle Place, London, S.W.1, who carried out the research programme.

Correspondence

Donkey Work

Sir,—Congratulations to Gleaner (C. & D., June 7, p. 614) for giving us a dose of reality. Years ago, other professions such as the dental, teaching and others admitted their experienced but unqualified folk to their registers on certain restricted terms, and then closed the door. Pharmacy will never really be a profession until it does the same. In regard to the question of holiday locums, why should not the Pharmaceutical Society, after any test they think fit, register any person with, say, twenty years' dispensing experience and give them rights and responsibilities of a pharmacist but restricted to a period of not more than three weeks in any one year? That would end the present racket of giving "legal cover" while the donkey work of the dispensary is being done by someone like

OLD SWEAT

Payments Held Over

SIR,—As a retail pharmacist I have, during recent months, become increasingly inconvenienced in my use of the National Pharmaceutical Union clearing-house system owing to the late receipt of statements from manufacturers, etc. Until now they have been paid on the twelfth of the month following receipt of goods on a statement that I have made out myself. In future I shall, because of the time factor, pay only those accounts for which I have received a statement by the tenth of the month. Others will be left until the following month's clearance. I would like to thank those manufacturers, etc., who do get their statements out early, and thus cnable my work in the use of the clearing-house to be spread over a few days instead of causing a last minute rush on the eleventh of the

> CLIFFORD ORRELL, Preston

Starting Pay Too Low

SIR,—It is encouraging to see (C. & D., May 31, p. 574) that certain experienced holders of the Apothecaries' Hall assistant-in-dispensing certificate are to receive a substantial salary increase. Unfortunately, that will do little to improve the enrolment of the greatly increased numbers of new students so urgently required. The wretched little leastet issued by the Whitley Council showing salary scales will remain unaltered at the lower end of the scale, and it is foolish to expect girls of good education to embark on a two-year training course when their poorly educated contemporaries, many almost illiterate, can, as shop assistants

or office juniors, command nearly twice as much. I recently had a discussion with the chief pharmacists of two leading teaching hospitals, and we agreed that the strongest representations should be made to the Whitley Council urging a considerable uplift at the lower end of the salary scales. We have been very worried for a long time because far too few girls of the right type have been coming forward for training, and it was hoped that a major advance would be made at the recent discussions with the Ministry. In recent talks with journalists and youth-employment officials I have been told that it is hopeless for them to recommend dispensing as a career while hospital salaries compare so unfavourably with those paid in other spheres. I agree with your contributor who wrote on "The Hump" that the salary scales of hospital pharmacists are far too low to encourage the and energetic young man to enter able and energetic young men to enter the profession. I believe that the future prospects of pharmacists and assistants are closely related, and any action that will disabuse the Ministerial mind of the notion that the hospital pharmaceutical service can be run on a cut-price basis by lowly paid unqualified workers will be to the benefit of all concerned. from consultants to patients.

LESLIE G. LUKER, London, W.2

HEALTH (like safety) IN NUMBERS

J. J. HAYTON

THOUGHTS on the statistical report for 1957 issued by the Joint Pricing Bureau, where it was stated that the English average prescription cost was 70.31d., the highest figure being for Cornwall (82.9d.) and the lowest for West Bromwich (56'11d.). The average Scilly Isles prescription cost was 108.45d.

WHILE we note the average Briton Needs prescriptions (to keep fit on) Worth sev'nty point three one pence, it's stirring That the stoics of West Bromwich. To whom we pay due homage, Keep alive on fifty-six point one recurring.

Where the population's thickest It's apparent that the sickest Need cheaper drugs to raise them from their bed. Whereas in the Scilly Isles Where there's scarce a man for miles The cost of it exceeds nine bob a head.

Though doubtless still as brawny, Descendants of Trelawny (No longer with King James's men to fight 'em) Still lead a life so dizzy, In St. Ives and Mevagissey, That their needs are eighty-two point nine an item.

And the doctor in South Staffs, It's apparent, rarely gaffs, By going to excess in his prescribing. Though the country may be Black, The smoke from chimney stack, It seems, breeds cheaper ills from its imbibing.

On the contrary, the Duchy Breeds expensive germs, and touchy (It can't be that the natives are just dopier).

And if Cornishmen endure Pains that need the dearest cure It's as well there is this sort of "Cornishcopia"!

A deep investigation Into this odd situation Might ferret out the point that nature's slipped on: Why are panaceas high on Reaching Gweek or Marazion While they're cheaper up in Wednesbury or Tipton?

In that land of hope and Hendra Though they DO have "things that go boomp in the night," -Perhaps it is a tenet In the county of Arnold Bennett "It's an 'Old Wives' Tale' that dear drugs put you right"?

Or may some dreadful bug be The fruits of Cornish rugby-The oval ball collecting germs insidious— Germs that won't adhere To a West Brom soccer sphere So medic'lly the Albion's less perfidious?

It can't be that they're tend rer

Then again, perhaps, they're TOUGHER-These Cornishmen—and suffer Their minor ailments, handy though the Scheme is, And their av'rage may be high Just because they nearly die Before they see the doctor in extremis?

But whatever's underlying The diff'rence, it's defying The Laws of Health—and still we face this fact: The fresh air of the rural Demands a dearer cure-all It's cheaper to be treated when you're packed!

RECEPTORS: IONISATION: CHELATION

Professor Albert lectures upon selective drug action

A SPECIAL University lecture upon pharmacology was given in London on June 9 by PROFESSOR ADRIAN ALBERT (professor of medical chemistry in the Australian National University). Professor Albert chose for his subject "Chemical Aspects of Selective Toxicity."

Pharmacodynamics

Interest had been focused for some time, he said, upon the factors involved in the action of a drug upon a specific cell, to the exclusion of others nearby, and the research resulting from that study had produced the word pharmacodynamics. The speaker emphasised that his lecture was based upon the different facets controlling the movement of drugs in the body—the pharmacodynamics of drug action. An important feature required of any drug effect was that it should be reversible. For example, a prerequisite of a sedative—bestowing a night's sleep—was that the patient should awaken in the morning. In the course of pharmaco-dynamic research the parallel biochemistry of differing species had been of assistance, but it had to be realised that there were similarities in break-down but differences in rebuilding of compounds within the body. Using projected slides, Professor Albert outlined the process of absorption of drugs into the body: their distribution by means of the circulation, inactivation, storage and excretion, and their contact eventually with receptors. Comparatively little was known about receptors, but sufficient had been elucidated to show that a drug was controlled by a diffusion constant, which was concerned with (a) a binding constant and a transporting agent, and (b) a binding con-

stant with receptor.

The complication was further extended by the recognition of different types of semipermeable cellular membrane. The chemical structure of a compound also dictated its acceptance, though in a number of cases it was the degradation of the drug that provided the key structure. Anthracene compounds and purgative glycosides became aglycones; acetanilide and phenacetin proceeded through to p-acetoamido-phenols; chloral hydrate became trichlorethanol, and the pentavalent arseni-cal compounds arsenoxides. If the biochemistry were studied further, it was possible to classify biochemically modified drugs into those combining with other compounds in the body, linked by easily reversible bonds (drugs in the group include adrenaline, acetylcholine, histamine, the antihistamine substances, alkaloids and anæsthetics); and covalent bonded compounds (including the arsenicals, mercurials, penicillin dibenarsenicals, mercurials, penicillin dibenamine, nitrogen mustards, anticholinesterase compounds, p-aminosalicylic acid, mercaptopurines and 8-azoguanine). The examination of those biosynthesised drug derivatives required scrutiny as to their specificity, a property demonstrated by aneurine. Displacement of a methyl group reduced the activity in vivo twenty-two times: the activity in vivo twenty-two times; complete removal produced an inactive compound. Thus the chemical structure

of the vitamin appeared to fit, with unusual exactitude, the requirements of the receptor. Professor Albert showed a photograph of a model which explained the interlinkage of drug and receptor. Based upon the quadrivalent carbon atom, three of the valencies were fitted with simple geometrical shapes, each representing other parts of the molecule. Thus a triangle, a square and a circle were arranged to fit into a base plate out of which those shapes had been cut. That three-dimensional concept immediately clarified the reason for the activity of, for example, *I*-adrenaline, and the inactivity of *d*-adrenaline, which failed to fit the receptor structure's shape.

Sulphanilamide Activity

Professor Albert dealt with the acceptance of certain compounds which simulated naturally occurring sub-stances and others whose activity was determined by ionisation and chelation. In the first of those groups, sulphanil-amide activity could be explained because the bacterial receptor normally accepting p-aminobenzoic acid failed to differentiate between the molecule of that compound and the molecule of sulphanilamide. Ionisation in solution depended upon ph. It was possible, therefore, to have three states in which ascorbic acid might exist in solution: dianion, monoion and the molecule. That occurrence explained the apparently variable bacteriostatic activity of certain compounds when concentration at apparently high and believed effective levels proved to be controlled by the pH of the medium. Two constants could be calculated for a drug, and upon them could be made estimations of effectiveness in specified conditions; those constants were:-

$$K_{I}$$
 (ionisation constant) = $\frac{\text{anion}^{-} \text{ H}^{+}}{\text{AH}}$

 K_s (instability constant) = $\frac{\text{anion} - S^+}{[AS]}$

The speaker discussed the biological effectiveness of a number of compounds tested upon a species of sea worm under differing pH conditions. Cocaine at pH 7 could be expressed as having an activity of 0.01; at ph 8 the activity was 0.005 and at ph 9 only 0.0025. In the same way amylobarbitone varied as follows:—pH 7: 0.006; pH 8: 0.025; pH 9: 0.05. Those observations applied in other spheres, and in the use of fungicides it had been shown that an alkaline solution of dinitrophenol was less effective, owing to the influence exerted upon ionisation. Professor Albert referred to the acridines, developed during the war years, in research work with which he had been intimately connected. Further studies of those compounds showed that ionisation of 5-monoamino acridine and 2.5 diamino acridine were maximal for a range of ten derivatives coming within the monoamino and diamino range. Chelation, the last of the speaker's

Chelation, the last of the speaker's headings, was a phenomenon whereby the heavy metals could be taken up for use in the body biochemistry. They could be arranged in descending order, illustrating their tendency to combine,

thus: ferric iron, copper, nickel, cobalt and zinc (approximately equal), ferrous iron, manganese, magnesium and calcium. The well-known botanical experiment, using a nutrient solution to which the test compound was added, and eventual observation of the effect upon a plant, demonstrated the influence of copper. Thus an optimal level in which copper was tested upon maize was limited at that point by the copper chelate formed. Experience had shown that the above grading of the heavy metals was an accepted generalisation which varied according to the substance with which the metal combined.

Compounds		Combining	Activity
Compounds		Ferric iron	Manganese
Glycine	•••	10	3.2
Aureomycin		9.4	4.3
Terramycin		9.6	4.3
Isoniazid			_
8-Hydroxy- quinoline		12.4	6.8

Once more constants could be determined:—

 $K_1 = \frac{Combination}{Copper Lysine}$

 $K_2 = \frac{Lysine-copper-lysine}{Lysine-copper}$

Anomalies Explained

The 1:1 chelates had proved to be the most effective in biological chemistry, or, as shown in the second equation the combination, lysine-copperlysine chelate. Apparent anomalies in the laboratory investigation of antibacterial compounds were explicable as a result of the discovery of chelate effects. Isomers of 8-hydroxyquinoline had proved to be less active, against certain bacterial organisms when tested in apyrogen water than in broth. Investigation had shown that the compounds used in the test had an enhanced activity in the presence of iron chelates. Finally Professor Albert considered the pharmacodynamic activity of the anæsthetics. Their toxicity was due, he said, to their concentration at one point, though their activity was assessed according to their relative humidity.

DEVELOPMENTS IN THE UNITED STATES

Trichlorobenzoic Acid Herbicides

Commercial production of a new group of herbicidal compounds based on 2,3,6-trichlorobenzoic acid has been initiated by Heyden Newport Chemical Corporation at Fords, New Jersey. Herbicides based on the new compounds are said to show outstanding promise for control of bindweed and other deep-rooted perennial weeds on agricultural lands and industrial sites at reasonable cost. Their effectiveness against persistent weed species at economic dosage levels has been demonstrated repeatedly, the company said, in a cooperative programme of several years' duration with weed control authorities throughout the United States where weeds of that type are a problem in land management.

MISCELLANEOUS INQUIRIES

Matt Varnish for Fishing Rods

Can you suggest a formula for a matt varnish for fishing rods?

A VARNISH sometimes used is an elastic copal preparation. When thoroughly dry, the varnished surface is flattened with pumice powder on a wet felt pad.

" Fining " Wine

How is isinglass used for clearing homemade wine, and what quantity should be used?

Isinglass is used for fining wine. Two teaspoonfuls of powdered isinglass may be used to each 10 gall. of wine. The isinglass is beaten into a little of the wine and added to the bulk, then shaken and stirred irr. Alternatively the white of an egg, beaten up, may be added to each 10 gall. of wine. After fining, the wine is left for at least a fortnight to settle, then removed through the barrel tap or by carefully decanting or syphoning off. The lees (deposit) has to be filtered off.

Vanilla Flavouring

I am looking for a recipe for an essence based on vanillin, Have you a formula?

THE following formulas taken from our publication *Pharmaceutical Formulas*, Volume II, will probably give you what you want:—

Vanillin Aleohol					360 25	gr. fl. oz.
AICOHOL						
Distilled	water				10	fl. oz.
			11			
		F3	. 877			
	w.	Porst	er's F	ormula		
Vanillin	w.	rorst	er's F	ormuia	360	-
Vanillin Aleohol		Forst	er's F	ormula	10	gr. fl. oz. fl. oz.

The second formula gives an essence that does not deposit crystals and effects a considerable saving of costly spirit. Dissolve the vanillin in the alcohol and add the distilled water. Caramel should not be used as colouring, as it causes a deposit. Caramel colour B., 8 gr., does excellently instead.

Procaine Penicillin Cerate (Veterinary)

Please suggest a formula for a procaine penicillin veterinary cerate based ou mineral oil and aluminium stearate,

PROCAINE penicillin cerate (veterinary) usually contains 100,000 units per gm. The following formula produces 50 gm.

Procaine penicillin	G 5 mega units	,
Soft white paraffin	32 gm.	
Liquid paraffin	14 gm.	
Aluminium stearat	e 1 gm.	

Melt the paraffins and incorporate the stearate, sterilising the mixture by heating at 150° C. for one hour. Allow to cool and add the procaine penicillin under aseptic conditions, finally distributing the product into inverted tubes and seal. Tubes with elongated nozzles for insertion into the teat canal should hold 1 gm. of the cerate.

Mildew on Books

Can you suggest a method for treating damp books upon which mould is growing?

Books that have been exposed to dampness should be dried out as quickly as possible in a heated room. They should be stood upright, opened up so that the hot air can circulate between the pages. As the pages dry out the musty smell will

disappear, and when they are thoroughly dry they should be dusted and the books stored in a dry place. Provided the place of storage is perfectly dry, there should be no recurrence of the mildew attack. If the dampness is of long standing, it is possible that, on drying, the pages may become brittle. The book must then be broken down and the pages resized and rebound. Leather binding should be protected with the following fungicide:—

Thymol
Mereurie chloride 4 gm.
Ether200 e.e.
Benzene400 e.e.
Apply with cotton wool or brush

Paraffin Wax Baths

How are paraffin-way baths used in the treatment of arthritis?

THE wax used for paraffin-wax treatment in arthritis is a hard paraffin of melting point 110-115° Fahrenheit. The wax is melted on a water-bath and the receptacle should be of sufficient size to permit immersion of a hand or foot. The patient is instructed to keep the immersed limb perfectly still for a few seconds or the sensation of heat may become unbearable. It is repeatedly withdrawn and re-immersed, the wax being allowed to solidify on the limb after each immersion, until five or six coats of wax have been applied. The part is then wrapped up in jaconet and cotton wool for twenty to thirty minutes. Beneath the wax the skin perspires freely and a local vapour bath is formed. At the end of the treatment the wax is easily peeled off, leaving an intense erythema that lasts for some time. The wax may be used again and again. When the joint affected is one that cannot be immersed in the wax (knee, shoulder, etc.), several coats of hot wax are applied by means of a large paint brush.

Retouching Prints

Can you give a formula for a photographic retouching set for local reduction of blemishes, the set to consist of three solutions?

CHEMICAL retouching sets for afterwork on prints are based, usually, on iodine-thiocarbamide local reducer. The formula is:—

		Δ.	
		gr. 2	
Methyl	aleohol	1 fl. oa	٤.
		В.	
I hioeart	oamide	gr. 4	0
Water	(eold) .		Ł.

The third solution is methyl aleohol. For use, mix 10 minims of A with 10 minims of B. For delicate work the resultant solution should be diluted with an equal volume of methyl alcohol. The print must be dry. It is pinned to a board, and the solution applied with a sable, or camelhair brush, just moistened with reducer, to the spot to be reduced. In the hand is held a somewhat larger brush, charged with methyl alcohol, which must instantly follow the reducer on the print (without waiting for the action of the reducer to show). The methyl alcohol is then wiped off from matt or blotted from glossy prints. The print is then ready for further treatment with reducer, as before, and the procedure is repeated until the desired effect is obtained. The strength of the reducer is, of course, adjusted more or less to the degree of reduction required. After treatment, the

print is placed, without previous washing, in hypo, where it remains for a few minutes and is then washed in the usual way.

Dog Shampoo

Have you a suitable formula for a cream shampoo for a dog?

THE following formula produces a fine cream shampoo, the consistency of which may be varied at will, less wax producing a thinner cream, more sodium lauryl paste a thicker cream with higher foaming power; and more lanolin a smoother but slightly less foaming cream:

Colour (water-soluble) is added to the paste and water if required. In making both mixtures are maintained at the same temperature, and the wax added to the water, stirring slowly until it is creamed. A preservative to prevent mould growth is needed, and that may be added to either phase as desired. Parachlor metacresol or gallic-acid esters (such as propylgallate, B.P.C.), are recommended. Olive oil may be used in place of lanolin. Mineral oil produces a smooth cream but greatly reduces the lathering quality. With the above details as guide, it should be fairly easy by experiment to formulate a reasonably cheap product.

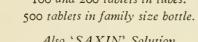
Reactions to Insulin

One of the medical practitioners in our area was in the pharmacy the other day speaking of local reactions to insulin in one of his patients. This is a subject I should like to know more about. Have you any information to give?

LOCAL reactions to injections of soluble insulin are now less common, as modern methods of manufacture ensure the removal of almost all the impurities. For the odd case that does occur, the easiest form of treatment is to change the brand of insulin, as slight differences undoubtedly between the products of various exist manufacturers. One manufacturer may use insulin derived from ox pancreas, another may use sheep or pig pancreas, and yet another may pool the insulin obtained from various sources. With protamine zinc insulin, local reactions are more common, They take the form of redness and local swelling, and more rarely an urticaria, which can be quite severe. In such cases it is as well, before resorting to more vigorous therapy, to confirm that the injection is being made correctly. Injections must be made subcutaneously. If they are made too near the surface an increase in local reactions may be expected. Correction of that small point sometimes eliminates a most baffling occasional reaction. In cases of genuine sensitivity the protamine content is almost invariably to blame. Sometimes the sensitivity disappears if treatment is continued; in other cases it may be controlled with small doses of antihistamines. Those that do not respond are best transferred to lente insulins which, being entirely free from any added protein, are far less likely to cause local reactions.



Also 'SAXIN' Solution in attractive plastic container.





BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

mild sedation

WITH

nutritional support

THE debilitated patient, whether recovering from severe illness or operation or suffering from a chronic disease, is greatly benefited by the addition of nutritionally generous supplements of vitamins of the B complex and ascorbic acid. Such patients often need also mild sedation.

A combination of the necessary vitamins with a relatively low dose of phenobarbitone is now available as

TROPENAL

INDICATIONS

- (1) Anxiety states with restlessness, especially associated with hypertension, alcoholic withdrawal or peptic ulcer.
- (2) **Progressive illnesses** in which insomnia is associated with a need for the greatest nutritional support—e.g. congestive heart disease cachectic states.
- (3) **During convalescence,** to speed recovery by promoting good appetite, and a quiet frame of mind associated with nutritional adequacy.
- (4) Insomnia not induced by pain.

FORMULA

Each tablet contains:

Aneurine hydrochloride B.P. 5 mg.
Riboflavine B.P. 5 mg.
Pyridoxine B.P.C. 2 mg.
Nicotinamide B.P. 15 mg.
Ascorbic acid B.P. 50 mg.
Phenobarbitone B.P. 16 mg.
(½ gr.)

In designing the formula, it was necessary to bear in mind the known antagonism between barbiturates and the vitamins of the B complex, together with the theoretical possibility that the effects might cancel each other out. But preliminary trials have shown that on account of the varying speeds of action and other factors not fully understood, the combination is clinically effective.

DOSAGE

One to four tablets daily. Tablets in packs of 25, 100 and 500.



TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 11: Although the London dock strike remained unsettled throughout the week there was no apparent desire on the part of manufacturers to cover more than their immediate requirements in CRUDE DRUGS from such stocks as existed in private warehouses. Meanwhile export trade in BOTANICALS and ESSENTIAL OILS is suffering badly, particularly in the Continental markets. A shortage of spot Olive oil has developed.

SARSAPARILLA was threepence per lb. dearer for shipment. Spot supplies of Indian HENNA and PODOPHYLLUM Emodi have been cleared and the market is awaiting new crop offers. IPECA-CUANIA was lower from Colombia and Matto Grosso but Costa Rica and Nicaragua were still not offering. Brazilian and Formosan MENTHOL were down in all positions and Chinese for shipment was reduced by sixpence per lb. East African PAPAIN was quoted at 25s. per lb., c.i.f., for East African grade one against 28s. 6d. recently; Ceylon has not yet followed. In AROMATIC SEEDS Cyprian CUMIN and Moroccan CORIANDER were both lower for shipment but Indian Celery was dearer at 132s, 6d, per cwt., c.i.f. Senega on the spot lost sixpence per lb. as lower prices from origin were received.

The various ORANGE OILS were maintained at their recently advanced levels and Bourbon GERANIUM continued its upward trend by advancing a further 5s. per 1b. Elsewhere prices, where altered, were in a downward direction and included Bois DE ROSE (down 2s. per lb.), Formosan Citronella (fourpence), Lemongrass (threepence), Sassafras (threepence), Patchouli (sixpence). Moroccan ALMOND OIL was quoted at 6s. 9d. per lb.. in bond, against 7s. recently.

In PHARMACEUTICAL CHEMICALS, ZINC OXIDE advanced £2 pcr ton. Aneurine Hydrochloride (vitamin B₁) was reduced by 15s. pcr kilo on June 11. The present reduction is the second to have taken place during 1958.

Pharmaceutical Chemicals

p-Aminosalycylic acid. — The sodium salt is 22s. 6d. per kilo for 1,000-kilo lots with smaller quantities at 23s. 3d. The CALCIUM SALT is 38s. 7½d. and 39s. 6½d. per kilo for similar quantities.

Ammonium Chloride. — Makers quote 1-cwt. lots of B.P. powder at 90s. per cwt. and are quoting extra-pure crystals at

AMPHETAMINE.—One to 10-kilo lots are: Base, from 140s. to 160s. as to quantity; SULPHATE is 110s. to 130s. and *d*-AMPHETAMINE SULPHATE, 405s. to 420s. for similar quantities.

Aneurine hydrochloride.—Lower from June 11 with 1-kilo at £13 7s, 6d. and with 10-kilo lots at £13 per kilo.

Antimony salts.—Quotations for potassium tartrate, b.p., are 7s. 6d. per lb. for 1–10 cwt. and sodium tartrate, b.p., 12s. 6d.

ASPIRIN.—5-cwt. lots arc 4s, 9d, per lb.; 1-cwt., 4s. 11d. The Calcium salt is 12s. 6d. per lb.

BARBITONE.—Rate for less than 25-kilo lots is 53s. 6d. per kilo. The SODIUM derivative is 56s. 9d. per kilo.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BENZAMINE. — In 16-oz. lots LACTATE is s. 3d. per oz. and Hydrochloride, 15s. 3d. per 16s. 3d. per oz.

BENZOIC ACID.—1-cwt. lots are 2s. $11\frac{1}{2}d$. per lb.; the SODIUM SALT is 2s. $9\frac{1}{2}d$. per lb. in 1-cwt. lots.

BENZYL BENZOATE. — One-ton lots of B.P. grade are at 4s. 6d. per lb.

Bromides.—Prices per lb. are as follows:-

		1 cwt.	5 cwt.
		s. d.	s. d.
Potassium	 	2 6	2 5
Sodium	 	2 6	2 5
AMMONIUM	 	2 10	$\frac{2}{2}$ $8\frac{1}{2}$

The prices quoted are for crystals (powder is 14d. per lb. more) packages free, carriage paid terms. The kilo rates for 50-kilo lots are 5s, 6d, for potassium and sodium and 6s, 3d, for ammonium.

Brucine.—Alkaloid in 100-oz. lots is 3s. 1d. per oz. and sulphate, 2s. 7d.

CALAMINE.—1-cwt. lots are 2s. per 1b.;

5 cwt., 1s. 9d.; 1 ton. 1s. $8\frac{1}{2}$ d. Carbromal. — B.P.C. is 21s. per lb. delivered in returnable packing.

CARMINE. — Price is 100s. per 1b. for 1 cwt. lots.

CIILORBUTOL.—28-lb. lots are quoted at 10s. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 7s. 2d. per lb. for 1-cwt. lots.

CREOSOTE.—B.P. quality, ex beechwood, is from 6s. 9d. to 7s. 6d. per lb.

DEXTROSE. -- Rates are as follows MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb. 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works. ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex workbower. £107 10s. ex warehouse.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d.; CALCIUM, soluble B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MANGANESE, soluble, B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 pcr cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 4s. 6d.

Hypophysphysphages GLYCEROPHOSPHATES.—Rates per lb. for

Hypophospintes.—Prices per lb. are:-

		A	
	7 lb.	28 Ib.	I cwt.
	s. d.	s. d.	s. d.
CALCIUM, B.P.C.	6 9	6 4	5 11
IRON, B.P.C.	13 9	13 3	12 9
Magnesium	11 6	1 I 1	10 8
MANGANESE, B.P.C.	13 1 I	13 5	12 11
POTASSIUM, B.P.C.	9 3	8 10	8 5
SODIUM, B.P.C	7 7	7 2	6 9

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9½ per lb. in 28-lb. lots; 1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. Phosphate, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. Phosphate, Saccharated, B.P.C., 28-lb. lots are 3s. 9d. pcr lb.; 1-cwt., 3s. 6d. Oxide, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; Carbonate, Saccharated,

B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales, 6s. 6d. per lb.; granular, 5s. 9d. AMMONIUM SULPHATE, 1-cwt., 1s. 10d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

ZINC CARBONATE. — price is 1s. 9½d. per lb. — In 1-cwt. lots the

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. Technical, 115s. per cwt.

ZINC OXIDE. — Dearer, B.P. quality in 2-ton lots is £100 10s. per ton; 1-ton £101 10s.; 5-cwt. £108 10s.

ZINC PEROXIDE. — Price (per 1b.) for 1-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 9d. per 1b.; technical, 60s. per cwt.

Industrial Chemicals

ACETALDEHYDE. — The 100 per cent. is £155 per ton.

ACETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 2558. and B.S.S., 2578. BUTYL, 1798.; ETHYL, 1518.; ISOPROPYL, 1478.

ACETIC ANHYDRIDE. — 10-ton lots are quoted at £134 pcr ton, delivered U.K. in returnable drums; 1-ton lots, £136.

ACETONE.—One-ton lots are quoted at £90 per ton.

Benzole. — Thiophene-free is from 9s. $3\frac{1}{2}$ d. per gall, for one 50-gall, barrel and pure, 6s. $3\frac{1}{2}$ d. per gall, for similar

N-BUTYL ALCOHOL. — 1-ton to 5-ton lots are quoted at £159 per ton and one-drum lots at £163 per ton. Secondary is £130.

CARBON TETRACHLORIDE, B.P.—1-2-carboy lots are £135 per ton. Technical, in 40-gall. drums, in less than 1-ton lots, is £84; 1 ton and under 2 tons, £81; 2 tons and under 4 tons, £80 10s.; 4 tons and upwards, £79 10s.

1SOPROPYL ALCOHOL. — Technical (99 per cent.) 5s. $0\frac{1}{2}$ d. per gall. for 10,000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE.—One-ton lots in drums are quoted at £145 per ton.

METHYL ISOBUTYL CARBINOL. — One-ton lots (in one delivery) are now £165 per

METHYL ISOBUTYL KETONE. — One-ton lots are £171 per ton with usual differentials for small quantities.

Naphthalene.—Home market prices (per NAPHTHALENE.—Home market prices (per ton for 4-ton lots at one time) are as follows:—CRUDE, crystallising point 64-71-9° C., £22 5s. to £23; WHIZZED, c.p. 72-77-5° C., £27 3s. 6d. to £35 13s. 6d. according to the crystallising point, ex works; HOT-PRESSED, minimum c.p. 77-6° C., £42 10s. 6d. ex makers' works; CRYSTALS from £62 8s. 6d. to £64 18s. 6d., delivered; BALL AND FLAKE, £70 18s. 6d. to £73 9s. delivered. £73 9s. delivered.

PHTHALATES.—Prices (per ton) for drum lots are as follows:—DIBUTYL, £228; DI-ISOBUTYL, £210; DIETHYL (normal grade), £229; DIMETHYL, £208.

STEARATES. — Spot prices for minimum 1-ton lots are now as follows:—Aluminum (all grades), 258s. 6d. per cwt., Calcium (precipitated), 248s. 6d.; Lead (30 per cent.), 228s. 6d.; Magnesium (standard), 261s. and (superfine), 307s.; Zinc, 261s. to 291s. as to grade.

TITANIUM DIOXIDE.—In 5-ton spot lots anatase is from £162 5s. per ton; rutile is £178 5s. for surface-coated and £170 for non-surface-coated.

Crude Drugs

AGAR.—Kobe is 11s. 3d. per lb., duty paid. New crop for June–July shipment, 9s. 2d., c.i.f.

ALOES. — Cape prime on the spot is 257s. 6d. per cwt.; shipment, 237s. 6d.,

ANISE (STAR).—Chinese is 130s. per cwt. c.i.f., and 140s. spot in bond.

Balsams,—Quotations (per lb.) are:-CANADA: Spot, 25s. COPAIBA: Para from 8s to 10s. duty paid. PERU: Spot, 11s. Tolu (genuine as imported): 24s. 6d.; B.P., 17s.

BENZOIN.—Sumatra No. 1 block on the spot is 520s. to 540s. per cwt. (465s., c.i.f.).

Buchu.—Spot rounds are 7s. per lb. New-crop for shipment, 6s. 3d., c.i.f.

CALAMUS. —Dutch root is quoted at 18. 4d. per lb., c.i.f.

CAMPHOR.—B.P. POWDER is from 5s. per lb., duty paid. Tablets, \(\frac{1}{4}\)-oz. arc 6s., in

Cascara.—Spot 1957 peel, 260s. per cwt. 1958 peel, June-July shipment, 205s. c.i.f.

Cassia. — Selected whole bark for shipment is 185s. per cwt., c.i.f., and extraselected broken, 155s., c.i.f. Spot: Whole 235s. in bond nominal. *C. fistula*, new crop, 110s. per cwt.

CINNAMON.—Ceylon for shipment (c.i.f.) per 1b., OOOO, 7s. 5d.; OOO, 7s. 2d.; OO, 7s.; seconds, 5s. 11\frac{3}{4}d.; featherings, 2s. 1d.; quillings, 4s. 6\frac{3}{4}d. (spot, 5s. 3d.); chips, $10\frac{1}{2}$ d. (spot, 1s.).

Frangula.—Spot is now 105s. per cwt. GINGER. — African, 95s. per cwt. on the spot; new-crop for shipment, 95s., c.i.f. Jamaican No. 3 on the spot is 325s. per cwt. June–July shipment (new crop), 280s., c.i.f. Cochin spot, 95s.

HENNA.—Indian is scarce on the spot. Origin not quoting for shipment.

1PECACUANHA.—Colombian for shipment is 52s. per lb., c.i.f.; Matto Grosso, 53s., c.i.f. No offers of Nicaraguan or Costa

LOBELIA HERB. — Spot offers are from 4s. 6d. per lb. as to origin.

MENTHOL.—Chinese is 50s. per lb., duty paid and 46s. 3d., c.i.f.; Brazilian, spot, 35s. 6d., duty paid, shipment, 32s. 6d., c.i.f. Formosan for shipment, 35s. 6d.,

Papain. — Shipment (c.i.f.) value is 25s. per lb. for East African grade one.

PEPPER. — White Sarawak on spot is again easier at 2s. 5\frac{3}{4}d. per lb., spot. June–July shipment quoted at 2s. 5d., c.i.f. Black Sarawak is offered at ls. 6d., spot, and June shipment at down to 1s. 5\frac{1}{4}d., c.i.f. Black Malabar is unchanged at 220s. per cwt. on spot; June–July shipment price is 195s. c.i.f. price is 195s., c.i.f.

PIMENTO. — Shipment is 540s, per cwt.,

Podophyllum. — *Emodi*: Stocks sold, awaiting new crop (August-Scptember). *Peltatum*, spot, 4s. 3d. per lb.; shipment, 450s., c.i.f.

Pyreturum—Extract, minimum 25 per cent. w/w pyrethrins, is 72s. per lb.

QUASSIA. — Chips on spot are offered 55s. per cwt. and for shipment at 32s. 6d., c.i.f.

QUILLAIA.—Spot offers of whole bark at 165s. per cwt.; cut, 197s. 6d.; crushed, 200s. Whole for shipment, 110s., c.i.f.

RAUWOLFIA. — Canescens, 2s. per lb., e.i.f., Vomitoria, 2s. 3d., c.i.f.; Serpentina, 6s., c.i.f. askcd.

Sarsaparilla.—Jamaican native rcd on the spot is 2s. 5d. pcr lb. Shipment, 2s. 3d., c.i.f.

SEEDS. — (Per cwt.).—Anise.—Cyprian, quoted at 167s. 6d., spot. Caraway.—Sellers of Dutch quoting 85s., spot, duty paid. Celery.—Indian quiet on spot at

175s., new crop for June-July ship-ment is dearer at 132s. 6d., c.i.f. Cori-ANDER. — Moroccan is 60s. and Rumanian 59s., both spot, duty paid. Morocan for shipment (new crop) now quoted down to 46s., c.i.f. CUMIN. — Firm, Cyprian is 200s. on spot, new crop for June–July shipment, 185s., c.i.f. Iranian, new crop is cheaper at 150s., c.i.f. with a fair amount of business passing. Dill.— Indian on spot quiet at 67s. 6d. FENNEL.— Indian 180s., spot and Chinese, 157s. 6d., duty paid. Fenugreek.—Moroccan offering at 50s., duty paid. Mustard.—English 70s. to 85s. according to quality.

SENEGA.—Spot is 16s. 6d. per lb.; ship-

SENEGA.—Spot is 166.
ment, 15s. 7d., c.i.f.
SENNA. — Tinnevelly LEAVES, prime
No. 1, 1s. 5d. per 1b., f.a.q., No. 3, 10d.
No. 2, manufacturing short at 1s. 6d. and
Alexandria Pods, manufacturing short at 1s. 6d. and hand-picked, 2s. 1d. to 2s. 4d. *Alexandria* pods: Manufacturing, offered from 1s. 6d. with hand-picked from 5s. to 6s.

SHELLAC.—F.O.T.N., 190s. per cwt., F. No. 1, 205s.; fine orange, 225s. to 295s.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb.

Source. — White is unobtainable on the spot. For shipment 65s. per cwt., c.i.f., is quoted.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s, on the spot.

STROPHANTHUS.—Kombé on the spot is 8s. 6d. per lb. for the 100 per cent.; gratus is unobtainable on the spot.

STYRAX. — Spot cleared and no direct shipment offers.

TRAGACANTH.—No. 1 ribbon is £1 £125 per cwt., No. 2, £110 to £115. £120 to

TURMERIC,—Madras finger is at 55s. and on spot. June shipment, 55s., c.i.f., quoted.

Valerian root. — Spot: Indian (with rootlets) is 130s, and Belgian, 175s, to 195s, per cwt. Dutch (max. $2\frac{1}{2}$ per cent. sand) for prompt shipment, 168s., c.i.f.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 25s. 3d.; 1-cwt., 25s. 6c. 56-lb., 25s. 9d.; smaller quantities, 26s.

Waxes. — (Per cwt.). Bees'.—Dar-es Salaam, spot, 525s., shipment, 525s., c.i.f. nominal; Sudanese, 450s., spot, in bond, and 445s., c.i.f. Abyssinian, spot, 470s. in and 445s., c.i.f. Adyssman, spot, 470s. In bond; shipment, 445s., c.i.f. Benguela spot, 510s., duty paid; shipment, 465s., c.i.f. Candelilla. — Spot, 460s. Carnauba.—Fatty grey, spot, 565s.; for shipment, 550s., c.i.f. Prime yellow, spot, 985s.; shipment, 930s., c.i.f.

Essential and Expressed Oils

Almond.—British oil is 8s. 3d. per lb. Moroccan, 6s. 9d., in bond.

ANISE.—Chinese, 8s. 6d. per lb., spot; shipment, 7s. 9d., c.i.f.

BAY.—West Indian is 12s. 6d. pcr lb. on the spot.

Bois de Rose.—Brazilian is 20s. per lb. on the spot and 17s. 6d., c.i.f.

CAJUPUT. - Spot supplies are from 10s. per lb.

CANANGA. — Spot is from 47s. 6d. to 50s. per lb.

lb. is Cardamom.—Price per lb. is 350s, for English-distilled and 267s. 6d. to 297s. 6d. for imported.

CELERY SEED. — Oil is 92s. 6d. per lb. for bulk lots.

Chenopodium.—Spot value is 40s. per lb. for original containers.

CITRONELLA. — Ceylon, spot firm at 4s. 2d.; shipment, 3s. 9d., e.i.f. Formosan, prompt shipment, 3s. 11d.; July—August shipment, 4s. 6d. per lb.; spot, 4s. 6d. in bond.

CLOVE.—Madagascar leaf is 6s. 6d. per lb., duty paid and 5s. 9d., c.i.f., for shipment. Rectified 87–88 per cent., 9s. 3d. Distilled bud oil, English, B.P., 26s. 6d. to

COD-LIVER. — B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. —B.P. oil is quoted from 70s. per 1b.

CUBEB.—Small spot supplies of imported are 65s. per lb.

CUMIN.—Quotations for English-distilled oil are about 90s. per lb.

DILL.—B.P. imported is 30s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80–85 per cent., 5s. 6d. Spanish (70–75), 4s. spot.

FENNEL.—Spanish swect on the spot is

quoted at 9s. 6d. per lb.

GERANIUM. — Bourbon is 135s. per lb. on the spot and 132s. 6d., c.i.f. Algerian,

LAVANDIN.—Spot is from 10s. to 12s. 6d. per lb. for original drums.

LEMONGRASS.—Spot is 6s. 3d and June shipment, 5s. 9d., c.i.f. 3d. per 1b.,

Orange.—Spot quotations of sweet ORANGE.—Spot quotations of sweet oil include Floridan at 12s. 6d. per lb.; Californian, 15s.; West Indian, 12s.; West African, 24s, 6d.; Israeli 6s. 6d. For shipment, Calfornian cold-pressed, U.S.P., is nominal at 23s. 11d., c.i.f.; distilled, 8s. 11d., c.i.f. Terpeneless is 200s, per lb., spot; bitter around 27s., as to sample.

PALMAROSA.—East Indian, 25s., spot, and 19s. 6d., c.i.f.

PATCHOULI.—Penang is 27s. 6d., in bond, and 25s., c.i.f. Seychelles is quoted at 31s., spot.

PENNYROYAL. -- Spot is quoted from 17s. 6d. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese Peppermint. — Arvensis: Chinese is 24s., 9d. per lb. on the spot and 22s. 6d., c.i.f. Brazilian, 10s., spot and 8s., c.i.f. Formosan, 16s., spot; new-crop for June-July shipment, 13s. 9d., c.i.f. Piperita: Italian "Mitcham"-type, from 42s. 6d. to 50s.; American, 27s. 6d. to 30s., as to origin. origin.

PETITGRAIN. — Paraguay is offered at 19s. per lb. on the spot; 18s., c.i.f.

PIMENTO. — English-distilled berry is 180s, per lb.; imported, 75s. Rectified leaf, 27s. 6d. per lb. for small lots.

RUE.—Spanish is 25s. per lb. on the

spot.

SAGE.--Spanish is 8s. 6d. per lb.; Dalmatian, 37s. 6d.

Sandalwood. — Mysore offcred from 75s. to 77s. 6d. per lb. as to source. East Indian, 70s. to 71s., spot.

Sassafras.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—Offers of U.S.P. grade are from 29s. per lb. on the spot.

Tangerine.—Hand-pressed is 55s. per 1b. and machine-pressed, 42s. 6d., spot.

VETIVERI.—Spot is currently at about 90s. per 1b.

YLANG YLANG.—Spot is from 45s. per

UNITED STATES REPORT

NEW YORK, JUNE 10: The price for domestic Crude Iodine was lowered 15 cents to 90 cents a lb. because of competitive conditions. Nux vomica was quiet but firmer with the buttons ten cents a lb. (up two cents). Lower per lb. were purified PAPAIN at \$12 (down \$4), and Podophyllum Peltatum at 45 cents (down five cents). Higher per lb. among ESSENTIAL OILS were ANISE quoted at \$3.25 (up 25 cents), and GRAPEFRUIT, \$2.25 (ten cents). Lower per lb. were CEDARLEAF at \$3.10 (40 cents), 70-75 per cent. Eucalyptus, 63 cents (two cents), 80-85 per cent., 70 cents (five cents). Ginger, \$11-75 (25 cents) and Ceylon CITRONELLA, 65 cents (three

WORLD TRADE

Indian Port Strike Threat,-Bombay's three principal dock labour unions have served notices on port authorities threatening to go on indefinite strike from June 16 unless their demands for better service conditions are immediately conceded.

Higher Brazilian Imports.—Brazilian trade returns show that imports of chemical and pharmaceutical products during the first nine months of 1957 were valued at U.S. dollars 107 millions, compared with \$104 millions in the corresponding period of 1956.

Penieillin Production in Spain. Penibercia, an enterprise producing penicillin under foreign patents, has started production in Pamplona in Northern Spain. At a later stage the enterprise is to produce also a number of other antibiotics.

Canada's Record Chemical Output.-Canada's ehemicals and allied products group of industries set a new produc-tion record in 1957 when the value of factory shipments grossed \$1,202 millions (about 8 per cent. more than in the preceding year). Pharmaceutieals rose by 12 per eent.

Kashmir Drug Farms.—The Kashmir Government has set up five drug farms in the State for eultivation of medi-einal herbs and plants. A 1,600 aere farm is at Chakroi, about 20 miles from Jammu, and four farms with a total area of 8,000 acres are in Kashmir Valley. Herbs and plants grown in those farms are to be processed at the State Government Drug Research Laboratories in Jammu and Srinagar.

Australian Import Licensing Continues.—The likelihood that balance of payments difficulties would exist for some time pointed to the continuation of import lieensing, the [Australian] Trade Minister told industrialists on June 9 but added that the Government did not want industry to depend on the shelter of import licensing. It must survive by reason of its own efficiency and tariff protection.

Saudi Arabian Imports.—All imports into Saudi Arabia are now to be subject to licences issued by the Council of Ministers, a government communique announced on June 4. The eommunique added that the importing of "luxury items would be completely banned as well as the transfer of large sums of funds from the country by individuals. The government has also decided not to contract any foreign or domestic loans and will cover its budget deficit by economy in expenditure.

West German Pharmaceutieals.-West German exports of pharmaccutical products in the first quarter of 1958 were valued at DM. 117.3 millions (against 95 millions in the first quarter 1957). That total included DM, 39.5 millions of unprepared medicaments or an increase of 19 per cent. Exports of alkaloids were valued at DM. 11-1 mil-Imports of pharmaeeuticals during the first quarter at DM. 35·1 millions were 11·5 per eent. up on the same quarter of last year and included unprepared medicines, valued at DM. 24.9 millions; prepared medicines at DM. 6.9 millions and alkaloids at DM. 2.2 millions.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 28

For chemical products used in industry (1) V-BOR, 763,934, by American Potash & Chemical Corporation, Los Angeles, California,

For brightening and bleaching agents (not for use in industrial or manufacturing processes) (3) UVITEX, 761,770, by CIBA, LTD., Basle, Switzerland.

For perfumes and non-medicated toilet prepara-

tions (3)
Device with words BINT EL FREETOWN, 763,001, by Molly Richards, Ltd., Kingstonupon-Thames, Surrey.

For soaps, perfumes, non-medicated toilet pre-parations and cosmetic preparations (3)

MINERS FIRST STEP, 766,101, by Henry Miner, Ltd., Surbiton, Surrey. TAN-TWEE 774,765, by Lentheric, Ltd., London, W.1. TAN-TWEED

For polishes; waxes; detergents and solvents (3) PRESTONE, 769,131, by Union Carbide Corporation, New York, U.S.A.

For perfumes, non-medicated toilet preparations, cosmetic preparations, essential oils, depilatory preparations and preparations for the hair (3) MINER'S CERT. X, 771,342, by Henry C. Miner, Ltd., Surbiton, Surrey.

For toilet waters containing floral extracts (3) DIRECTOIRE FLOREAL, 772,128, by Charles of the Ritz Distributors, Ltd., London, W.1.

For non-medicated toilet preparations and denti-

ORA, 773,534, by Boots Pure Drug Co., Ltd., Nottingham.

For soaps, washing and bleaching preparations (not for use in industrial or manufacturing processes) (3)

Device with word SUNLIGHT, 774,121, by Lever Brothers, Port Sunlight, Ltd., Port Sunlight, Ches.

For wax polish (3)

MILADY, 774,750, by Theodore Hertzl Herwald, London, N.W.2.

For soap (3)

LORVISCO, 774,861, by London Oil Refining Co., Ltd., Clayton. Manehester.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory pre-parations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3)

LOVE AFFAIR, 775,339, by Goya, Ltd., London, W.I.

For insecticides, fungicides and herbicides (5)
Device with words DU PONT, 757,453, by
E.I. du Pont de Nemours & Co., Wilmington, Delaware, U.S.A.

For medicated ointments (5)
CAMYNA, 768,479, by Dr. Karl Thomae,
G.m.b.H., Biberach-on-Riss, Germany.

For sanitary towels, sanitary belts and sanitary tampons (5)

FEMS, 772,342, by Kimberley-Clark Corporation, Neenah, Wisconsin, U.S.A.

For all goods (5)

VIOZIDE, 772,351, CAVILMA, 774,552, CANILIN, 774,887, by Glaxo Laboratories, Ltd., Greenford, Middlescx. SEEDERON, 773,863, by Horlicks, Ltd., Slough, Bucks.

For bandages coated or impregnated with gypsum with plaster of paris, being goods for cura-

tive purposes (5)
CELLAMIN, 772,425, by Lohmann, K.G., Fahr-on-Rhine, Germany.

For pharmaceutical preparations in tablet form use in treating stomach ailments (5)

TREVIDAL, 774,635, by Organon Laboratories, Ltd., London, W.C.2.

For food for animals and birds (31)

BRISKO, B773,049, by Petfoods, Ltd., Melton Mowbray, Lcics.

For food for cats and birds (31) MINX, 773,053, by Petfoods, Ltd., Melton Mowbray, Leics.

For foodstuffs and grit, all for budgerigars (31) BUDGIE-TEETH, 773,215, by Petfoods, Ltd., Melton Mowbray, Leics.

From the "Trade Marks Journal," June 4 For chemical products (1)

UGILOR, 769,486, by Société Ugilor, Paris, France.

For chemical products used in agriculture, horticulture and forestry; and artificial manures (1)
Device with words AQUARIUS THE WATER
BEARER, 773,337, AQUARIUS, 771,741, by Charles Arthur Shepherd, Manchester.

For all goods (1)
EMBACEL, EMBAPHASE, 774,546-47, by May & Baker, Ltd., Dagenham, Essex.

For chemical products used in industry and photography (1)

KERDANE, 774,739, by Compagnie Francaise de Raffinage, Paris, France.

For all goods (3)

ROCK'N ROLL, 758,379, by Associated Products (England), Ltd., London, E.C.2. VERS TO1, 771,138, by Worth Parfums, Paris, France. For cosmetic pencils (3)

CILCOLOR, 767,587, by Conté, Paris, France. For non-medicated toilet preparations, cosmetic preparations, perfumes and perfumed soap (3)

Device with words LANCOME D'ABORD, 767,825, by Lancôme, S.A., Paris, France.

For toilet waters, eau de Cologne, essential oils; and toilet oils and talcum powder, all being per-

FILLE D'EVE, 767,859, by Parfums Nina Ricei, Paris, France.

For toilet powders, non-medicated toilet preparations, perfumes, toilet articles (not included in other classes), cosmetics, preparations for the hair and soap (3)

HIGHLAND MIST, 773,569, by Lavapine, Ltd., Dundee, Scotland.

For pharmaceutical preparations containing cin-

LEUCOTROPIN, 755,841, by Silten, Ltd., Hatfield, Herts.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Tuesday, June 17

HERIFORD BRANCH, PHARMACEUTICAL SOCIETY, research laboratorics, Smith & Nephew, Ltd., Welwyn Garden City, at 7.30 p.m. Visit.

Wednesday, June 18

Manchester Pharmaceutical Golfing Society, Fixby hall, Huddersfield, Four-ball Stableford for Robinson's of Chesterfield prizes,

SOCIETY FOR ANALYTICAL CHEMISTRY, The Feathers, Tudor Street, E.C.4., at 6.30 p.m. Microchemical group discussion: "The Determination of Elements other than C,H,O,N,S and Cl,Br,I in Organic Compounds."

SOUTH LONDON AND SURREY PHARMACISTS' GOLF-ING SOCIETY, Walton Heath, Tadworth, at 1.30 p.m. Hosts: Pfizer, Ltd. Stableford competition.

TUNBRIDGE WELLS and DISTRICT PHARMACEUTICAL Road. 2.30 p.m.; Scavenger supper at High Rocks, 7 p.m.; informal dance, High Rocks hotel, 8.15 p.m. Further details from D. Hinchliffe, 2 High Street, Rusthall, Tunbridge Wells.

Thursday, June 19

EAST KENT and FOLKESTONE BRANCHES, PHARMA-CEUTICAL SOCIETY, The Square, Chilham, at 7.15 p.m. Inter-Branch rally and supper (9.15 p.m. onwards).

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISIS, at 3 p.m. Visit to Boots experimental station, Lenton.

Saturday, June 21

COMMERCIAL TRAVELLERS' BENEVOLENT INSTITU-TION, Berners hotel, Berners Street, London, W.I. at noon. Half-yearly court of governors.

ROYAL COMMERCIAL TRAVELLERS' SCHOOLS, Uxbridge Road, Hatch End, Middlesex. Associa-

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses

June 22 28 LONDON

Airwick (3), Ajax cleanser, Alka-Seltzer (2). Amami wave set (2). Andrew's liver salt (3). Arrid Roll-on (2). Bartex sun-glasses, Beecham's powders. Bristow's shampoo, Brylcreem (3). Carter's little liver pills. Cooper's aerosol (2). Damaskin, Dinneford's magnesia (2).

Eno's Fruit Salt (2). Flit press-button spray (2). Fynnon salt, Frozoclone (2). Germolene (4). Ingram's shaving cream (4). Iron Jelloids. Lorelox, Lucozade (15).

Maclean's indigestion remedies (2), tooth-paste. Marzine (6). Max Factor preparations. Magnesia tablets (2), Mix-A-Shake (4), Mothaks (2). Nair (2). Nervone, Optrex (2). Optone. Parke, Davis shaving cream (3). Phensic (3). Phyllosan (4). Pond's Angel Face (4). Prom. Quickies (12). Robinson's lemon barley water (3), Robinade (4),

Silvikrın pure (2). Spratts (3), Sprinkleen (2). Sun-orange quosh (4), Twink (4), Vosene shampoo (2). Yeast-Vite.

SCOTLAND

Airwick (3), Ajax cleanser, Alka-Seltzer, Amamı wave sct (2). Andrew's liver salt (2). Arrid Roll-on (2). Askit (7). Bartex sun-glasses. Beecham's powders (2), Bristow's shampoo (2), Brylcreem (3). Dinneford's magnesia (3).

Eno's Fruit Salt. Fynnon salt, Germolene (4). Ibcol (3), Knight's Castile soap (7), Lucoz-

Maclean's indigestion remedies, tooth-paste (2) Marzine (9). Max Factor preparations. Milk of Magnesia (2), tablets (2), Moorland's Mothaks (2), Optrex (2), Optone, Palmolive soap, Personnia, Phensic (4), Pond's Angel Face (4), Prom (2), Quickies (12), Robinson's lemon barley water. Robinade (2).

Silvikrin pure. Sprinkleen. Sun-orange quosh (2), Twink (3). Vosene shampoo (3), Yeast-Vite,

MIDLANDS

Airwick (3). Ajax cleanser, Alka-Seltzer, Amami wave set (2), Andrew's liver salt (3), Arrid

Roll-on (2), Bartex sun-glasses. Beautyflo (2), Beecham's powders, Bristow's shampoo, Brylcreem (3). Carter's little liver pills (3). Cooper's aerosol (2).

Eno's Fruit Salt. Flit press-button spray Fynnon salt (2), Germolene (4), Ingram's shaving cream (3), 1bcol (5), Larson's Swedish milk diet. Lucozade (19).

Macleans indigestion remedies, tooth-paste, Marzine (11), Max Factor preparations (2), Milk of Magnesia (2), Mīx-A-Shake (4), Moorland's tablets, Mothaks (2), Palmolive soap, Phensic (3), Phyllosan (3), Pond's Angel Face (4), Prom. Quickies (16), Robinson's lemon barley water (3), Robinade (2),

Silvikrin pure. Sun-orange quosh (3), Twink (3). Vosene shampoo (3), Yeast-Vite, Zoflora,

NORTHERN

Airwick (3), Ajax cleanser, Alka-Seltzer (2), Amami wave set (2), Andrew's liver salt (3), Arrid Roll-on (2), Bartex sun-glasses, Beecham's pills (2), powders (3), Bristow's shampoo (4), Brylcreem (4), Cephos (4), Cooper's aerosol aerosol (2), Dento (3), Dinneford's magnesia (2),

Eno's Fruit Salt (2). Flit press-button spray (2). Frozoclone (4). Fynnon salt (2). Hiltone (2). Germolene (3). Ibcol (5). Ingram's shaving cream (3). Iron Jelloids, Larson's Swedish milk diet. Lucozade (16).

Maclean's indigestion remedies (2), tooth-paste. Marzine (13). Max Factor preparations, Milk of Magnesia (2), Mix-A-Shake (3), Moorland's tablets, Mothaks (3), Optrex (2), Palmolive soap, Parke, Davis shaving cream (2), Phensic (3), Phosferine (2), Phyllosan (3), Pond's Angel Face (4), Prom. Ouickies (12) Robinson's lemon barley (3), Robinade (3),

Silvikrin pure. Setlers (2), Scholl's zino pads (3), Sun-orange quosh (2), Twink (3), Valderma (2), Vosene shampoo (3), Yeast-Vite, Zoflora,

WALES

Airwick (3). Ajax eleanser. Alka-Seltzer (4). Amami wave set (3). Andrew's liver salt (4). Bartex sun-glasses, Beecham's pills (3), powders (2), Bristow's shampoo (12), Brylcreem (2). Cooper's aerosols.

Eno's Fruit Salt, Fynnon salt (2), Ingram's shaving cream (4), Lucozade (18),

Maclean's indigestion remedies, tooth-paste. Marzine (6). Max Factor preparations, Milk of Magnesia tablets. Mothaks (2). Palmolive soap. Phensic (3). Phosferine (3). Phyllosan (4). Pond's Angel Face (4), Prom (2), Quickies (12). Robinson's lemon barley water (2), Robinade (2).

Sun-orange quosh (3), Toni (3), Twink (3), Vosene shampoo (4). Yeast-Vite (4).

PUBLICATIONS

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

British Schering, Ltd., 229 Kensington High Street, London, W.8; "Oblivon." Card. " Oblivon." Street, London, W.8: "Neutradonna," folder.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Nobecutane," booklet, pp. 11; "Marevan," booklet, pp. 11; "Marevan," folder.

GEIGY PHARMACEUTICAL CO., LTD., Roundthoin Estate, Wythenshawe, Manchester, 23: "Eurax," folder; "Dosulfin," booklet, pp. 10: Medical Products, March 1958, booklet, pp. 54; Documenta rheumatologica, Geigy, No. 2. booklet, pp. 70; Folia dermatologica, Dermatomycoses III, Dermatomycoses IV, Psoriasis, folders.

GLANO LABORVIORIES, LTD., Greenford, Middlesex: "Dimycin," "Streptomycin, Glaxo," "Whooping cough vaccine, Glaxo." "Predenelan," "Predasin," "Crystapen V" tablets and liquid. Information cards,

Price Lists

Bengue & Co., Lid., Mount Pleasant, Alperton, Wembley, Middlesex: Price list. April 1958.

CROOKIS LABORATORIES, LID., Park Royal, London, N.W.10: Price list, 1958.

EDWARD GURR, LTD., 42 Upper Richmond Road West, London, S.W.14. Price list, 1958. Michrome stains. Pp. 61.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Imperial Chemical House, Millbank: "Terylene in Industry," Pp. 31.

KODAK, LTD., Kodak House, Kingsway, London, W.C.2: Kodak Cameras, banners and awning strips, D. and P. wallets. Folders, Kodak View. 1958, No. 1, Pp. 28, Kodak Dealer Catalogue, Supplement 1958.

LANCOME (ENGLAND), LTD., 14 Grosvenor Street, London, W.1: Price list, 1958.

Booklets and Leaflets

BRILISH RUBBIR PRODUCERS, RESEAR H ASSOCIA-TION, 48 Tewin Road. Welwyn Garden City, Herts: Publications 272, 273, and 274.

FISONS, LTD., Felixstowe, Suffolk: Fison's Journal, No. 60, pp. 64.

GLASS MANUFACTURERS' FEDERATION, 19 Portland Place, London, W.1: "This is the British Glass Industry." Pp. 31.

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; ‡ = Tax 60 per cent.; † = Tax 90 per cent.

Roberts Windsor series Doz

MERCK SHARP & DOHME, LTD.	fcor	reet	ed
notel Doz.			
	2	6	
	_		
CROOKES LABORATORIES, LTD.	[cori	reet	ed
notel	I.R	P.	
Lactalumina co, tablets* 12	1	10	
	-		
KODAK, LTD.			
Brownie movie camera			
	396	3	R
PHARMACEUTICAL SPECIALITIES	(5.I.A	37	D
BAKER), LTD, (to trade from June 2;	to I	ouo	HC
from June 30)			
Soneryl sodium capsules			
150 mgm. 100	18		
(to trade from June 9; to public from	ı Ju	ly.	7)
Nivaquine tablets			
200 mgm, 10	2	3	R
	19	6	R
. 500	93		
Royamycin tablets	,,,	U	10
	37		1)
250 mgm, 20	3/	0	K
PULLIN OPTICAL CO., ETD.			
Slidelite viewer	19	6	R
7776	* /	1,	
WEDDEL PHARMACEUTICALS			
Each			
Bilevae tablets 50 2 2	3	3	
100 3 8	5	6	
		,	
P.A.T.A. LIST			
(Alterations notified this week by the Pr	onri	eta	rv
Articles Trade Association.)	-2 [2]		. ,,
Atticles Trade Association.)			

ADDITIONS TO THE LIST ROBERTS WINDSOR SOAP CO., LTD.

KOOCITS MINGSOT ACTICS	Di	14.		
toilet soap*	6	10 ±		11
bath tablets*	13	9	1	10
bath disk*	13	9	- 1	10
bath cubes‡	18	1	3	0
talcum powder‡	16	0	2	8
hand cream‡	15	3	2	6
Roberts Original Brown Wir	ndsor			
toilet soap*	8	4 !	1	1 1
bath disks*	16	9	2	3
Derl soap toilet*	9	2	- 1	3
bath disk*	18	4	2	6
Derbae soap*	6	5		101
liquid emulsion*	12	8	- 1	10
metal combs*	36	3	4	9

NEW PRODUCTS AND PACKS

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Noradrenaline acid tart		-,			
standard solution, Sna	psule	s Do	oz.		
4 mils	6	96	0	12	0
	50	696	()		
2 mils	6	66	0	- 8	3
	50	498	0		
ampoules of 16 mils	5	225	0	28	1 1
emergency solution. Sr stiles 2 mils	1ap- 6	69	0	8	71

COUNTY LABORATORIES, ETD. Silvikrin leaf shampoo

DISTILLERS CO. (BIOCHEMICALS), LTD. Distaquaine V-K 125 tab- Each

lets	1,000	383	4	575	0
Distaquaine V-K 250					
	12	- 11	-0	16	- 6
	100	80	-0	120	-0
	500	382	4	573	6
GLAXO LABORAT	ORIES,	ŁTD.			
Triplopen-S single do	ose vial	2	10	4	3
INDEDIAL CHEAT	CAT I	NINE	TDI	EC 1	. 1

IMPERIAL CHEMICAL INDUSTRIES, £1D., PHARMACEUTICALS DIVISION Icipen V 300 tablets 12 Doz. 19 10; Each 144 0

	100	90 U	144	U
	500	458 10	688	3
		Doz.		
suspension 2 fl	l, oz.	202 0	2.3	3
KODAK, LTD.				
Photographers' map of				9

M, & R, NORTON, LTD. Cavalcade liquid net			
aerosol‡	50 0	8	9
Hanri sea foam shampoo*	6 8	i	0
Neutrogena shampoo*	Each		
20 Il. oz.	15 6	28	0

20 ll. oz. 15 6	28	-
PUŁLIN OPTICAL CO., LTD.		
Logavist battery viewer SSB	37	- (
film strip attachment	2	
Pullin slide transit boxes		
2 x 2 in. 60	6	-
160	15	- (

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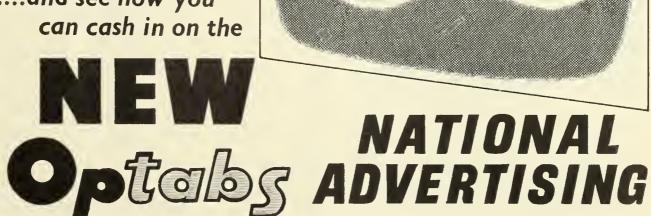
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Estimated Readership

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The People 14,212,000 Woman's Sunday Mirror . . 2,242,000

The Sunday Express . . . 9,699,000

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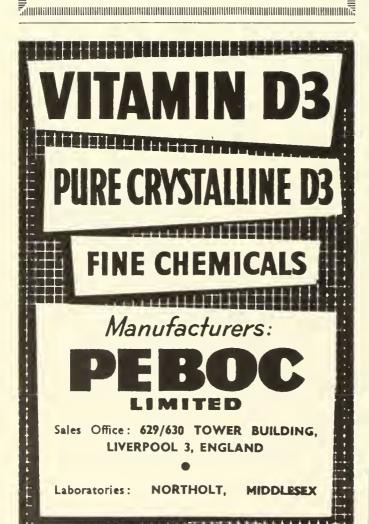
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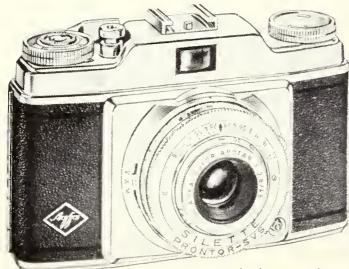
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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

PREMISES FOR SALE

WEST BYFLEET, Surrey. New shop with living accommodation, central business position, can be sold freehold or leased for chemist, Par-ticulars from Smith Bros, (Builders), Ltd., 3 Claremont Road, West Byfleet, (Phone: Byfleet

BUSINESSES FOR DISPOSAL

PHARMACEUTICAL COMPANY Inquiries invited from principals, Box

WEST WALES coastal and market town, well established business in main street, near surgeries, spacious freehold property, living accommodation. Box C 1577.

BUSINESSES WANTED

programme pr IN THE ASHE LABORATORIES development IN THE ASHE LABORATORIES development programme provision is made for the purchase of one or more cosmetic, toiletry or proprietary medicine businesses. Principals are invited to contact Managing Director with a view to opening negotiations. Ashe Laboratories, Limited, Leatherhead, Surrey. C 396

APPOINTMENTS ANCOATS HOSPITAL, **MANCHESTER, 4**

Locum Pharmacist
required, Salary £16 16s, per week. Applications to be addressed to the General SuperinC 8059

ANCOATS HOSPITAL MANCHESTER, 4 Pharmacist

Applications are invited for the above post. Whitley Council scale and conditions, Salary £580—£785 p.a. Applications, stating age and experience, with names of two referees, to the General Superintendent. C 8058

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE
Locum Dispensing Assistant
required for the following period:
July 7 to 19.
Salary up to £9 11s. 6d, per week, plus I ondon Weighting, according to age and qualification, Applications to the Chief Pharmacist,
St. Leonard's Hospital, Nuttall Street, London,
N 1.

C 378

BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

Locum Pharmacist

Salary up to 16 guineas a week. Apply to Hospital Secretary, Tcl.: ADV. 3413. C 397

CANTERBURY GROUP

HOSPITAL MANAGEMENT

COMMITTEE

Deputy Chief Pharmacist

Applications are invited for the appointment of Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals).

The department which is situated at the Kent maceutical Department (Category IV Hospitals). The department, which is situated at the Kent and Canterbury Hospital, serves the eleven hospitals and clinics in the area. Salary £675 rising by annual increments to a maximum of £910 per annum. Applications with full details and the names of two referees to be addressed as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury.

C 8068

CITY GENERAL HOSPITAL, SHEFFIELD, 5 Locum Pharmacist

Locum Phirmacist
required during period July to September.
Work undertaken under the supervision of the
Chief Pharmacist. Comfortable aecommodation
available for female Pharmacist, if required.
Salary £16 16s. per week.
Apply, stating particulars of age, experience,
etc., to the Group Secretary, "Lyndhurst,"
Nether Edge Hospital, Sheffield, 11. C 8073

DERBY No. 2 HOSPITAL

DERBY No. 2 HOSPITAL
MANAGEMENT COMMITTEE
Chief Pharmacist, Group Basis
Category II. Salary £725—£990, The successful applicant will be responsible for organising and maintaining this service throughout nine hospitals in the Group and will be based at Babington Hospital, Belper.
Applications stating age, qualifications and full details of experience, together with the names of two referees to be forwarded as soon as possible to the Group Secretary, Derby No. 2 Hospital Management Committee, Babington Hospital, Belper. Hospital, Belper.

Hospital, Belper.

Canvassing directly or indirectly will disqualify and applicants must disclose in writing whether they are related to any member or senior officer of the Committee.

C 8113

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE Locum Pharmacists

required for the following periods: July 7 to 26. September 8 to 20.

Salary up to 16 guineas per week, Applica-tions to the Chief Pharmaeist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 377

GENERAL HOSPITAL, MARGATE Locum Pharmacist

Applications, stating age, qualifica-experience, with names of two re-tic Hospital Secretary. C 402 required. tions and experience, with nam ferees, to the Hospital Secretary.

CROWN AGENTS, 4 MILLBANK, LONDON, S.W.1

LONDON, S.W.1

Senior Pharmacist.

(male) required by NIGERIA NORTHERN REGION Ministry of Health for tour of 12-24 months in first instance, (a) with prospect of pensionable employment, (b) with membership of Oversea Superannuation Scheme, or (c) on temporary terms. Commencing salary according to experience in scale (including inducement addition) £1,458 rising to £1,680 a year for terms (a) or (b) and £1,608 rising to £1,824 a year, plus gratuity at rate £150 a year, for terms (c). Clothing allowance £45. Free passages for officer and wife. Assistance towards children's passages and maintenance grant up to £288 annually. Liberal leave on full salary. Candidates must be M.P.S. or F.P.S. and have considerable experience of wholesale drugs and surgical equipment at executive level, or as supplies officer in U.K. Health Service, Previous overseas experience an advantage, N.H.S. Superannuation Scheme rights may be preserved in approved cases. Write to the Crown Agents, 4 Millbank, London, S.W.I. State age, name in block letters, full qualifications and experience and quote M3C/44734/CD. C 8093

CROYDON EYE UNIT, 33 MAYDAY ROAD, THORNTON HEATH Pharmacist (part-time)

Six sessions weekly, Rate 33s, per session, Pharmacy linked with that of Mayday Hospital. Application form obtainable from the undersigned.

GEORGE A. PAINES, Group Secretary.

General Hospital. London Road, Croydon,

HOSPITAL MANAGEMENT COMMITTEE, No. 9 WAKEFIELD "A" GROUP

No. 9 WAKEFIELD "A" GROUP Senior Pharmaceist required for the Group Pharmaceitical Department at Clayton Hospital, Wakefield, Successful candidate will take charge of a small manufacturing and sterilising department and will undertake very occasional relief duties at one other hospital in the Group.

Salary scale £650 x £30 (6)—£830 per annum with additional allowance of £25 per annum for possession of a qualification higher than Ph.C. New entrants to the Hospital Service commence at the minimum of the scale. Conditions of service in accordance with Whitley Council

at the minimum of the scale, Conditions of service in accordance with Whitley Council Agreements, Application Forms may be obtained from the Group Secretary, 113 Northgate, Wakelield,

C 8088

ERNEST J. GEORGE & CO.

HIGH HOLBORN, LONDON, W.C.1.

Telephone: HOLBORN 7406 7

Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.

Appointments—Continued

KENT AND CANTERBURY

KENT AND CANTERBURY
HOSPITAL, CANTERBURY
Post-graduate Student
required in the Group Pharmaceutical Department, Immediate vacancy, Salary £385 per annum. Enquiries to Group Pharmacist (telephone Canterbury 2291). Applications to Group Secretary, Central Office, Nunnery Fields Hospital Canterbury.

C 8069

HOSPITALS FOR DISEASES

OF THE CHEST
Loeum Pharmacist (Category III)
required at THE LONDON CHEST HOSPITAL, Salary by arrangement.
Applications to the House Governor, London
Chest Hospital, E.2. C 8063

Chest Hospital, E.2. C 8063

KENT AND CANTERBURY
HOSPITAL, CANTERBURY
Pharmacist
required for the Group Pharmaceutical Department at the Kent and Canterbury Hospital,
Canterbury. This post offers excellent experience in all branches of Pharmacy. This department services the Canterbury Group comprising eleven hospitals with a total of approximately 850 beds, Salary (Category IV hospitals) \$4580 x £30 (6)—£760 x £25 (1)—£785.
Higher qualifications allowance payable as appropriate. The Group Pharmacist will be pleased to answer any enquiry either by telephone or letter concerning the duties of the post, Enquiries from candidates about to sit their Final Examinations will be considered.
Applications with full details and copies of three testimonials to be forwarded as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury.

C 8067

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11

Assistant-in-Dispensing required. Whitley Council rates of pay and conditions. Applications, in writing, giving names of two referees to the Secretary. C 390

KENT AND CANTERBURY
HOSPITAL, CANTERBURY
Loeum Pharmacist
required for service in the Group Pharmaceutical Department for a period of approximately two months. Salary by arrangement and according to experience. Enquiries to Group Pharmacist (telephone Canterbury 2291). Applications to Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8070

LONDON JEWISH HOSPITAL,

Applications are invited for the post of Pharmacist.

Applications are invited for the post of Pharmacist. Whitley Council salary scale and conditions of service. Applications, stating age, qualifications, experience, and the names of two referees, to the Secretary, Stepney Green H.M.C., Mile End Hospital, Bancroft Road, London, E.1.

C 8064

LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1
Loeum Pharmacist
required. Salary £16 168, per week. Applications to the Chief Pharmacist (Tel. No.: Stepney Green 4251). C 8065

MANSFIELD HOSPITAL

MANSFIELD HOSPITAL
MANAGEMENT COMMITTEE
Locum Pharmaeist
required as soon as possible for the Group
Pharmaceutical Department at the King's Mill
Hospital, Sutton-in-Ashfield, Notis, for a period
of three months in the first instance, Salary
£16 16s. per week, This is an opportunity for
a young pharmacist to gain experience of hospital pharmacy in a pleasant modern department. Applications to the Group Pharmaceutical Officer, King's Mill Hospital, Sutton-inAshfield, Notis.

C 8057

METROPOLITAN HOSPITAL,
KINGSLAND ROAD,
LONDON, E.8
Locum Pharmaeist
required immediately. Salary up to 16 guineas a week. Apply to Hospital Secretary. Tel.:
CLIssold 6862. C 392

PINEWOOD HOSPITAL,
NINE MILE RIDE, WOKINGHAM
Locum Chief Pharmacist
required for two weeks from September 1.
Salary £16 16s, per week. Residential accommodation available, £135 p.a. Applications to Secretary.

C 8049

NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE,

Nr. ST. ALBANS, HERTS
Locum Tenens Pharmacist
required at £16 16s. per week. Details to the
Group Secretary with names of two referees in
an envelope to be endorsed "Locum Pharmacist." C 8101

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8 (General 146 Beds)

Phirmacist
for modern department, Permanent post vacant
due to retirement. Salary £600—£815, plus
appropriate higher qualification allowance, Apply with details of age, training and experience
to the Hospital Secretary. C 398

NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE,

Nr. ST. ALBANS, HERTS
Senior Pharmacist
Applications are invited for the above post, £650 x £30 (6)—£830. New pharmacy completed 1957.

Applications to the Group Secretary, with names of two referees, endorsed "Senior Pharmacist."

NETHER EDGE HOSPITAL,

NETHER EDGE HOSPITAL,

SHEFFIELD, II

Locum Pharmacist
required from August 18 to September 13, 1958, or thereabouts. Salary by arrangement. Comfortable accommodation is available for female Pharmacist, if required.

Apply. stating particulars of age, experience, etc., to the Group Secretary, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 8072

OAKWOOD HOSPITAL,

MAIDSTONE

Assistant-in-Dispensing
(full time) required at this hospital. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council regulations. Applications stating age, qualifications, full details of experience and names of two referees to be sent to the Secretary as soon as possible.

C 8085

PINDERFIELDS GENERAL HOSPITAL, WAKEFIELD

Assistant-in-Dispensing required. Apothecaries' Hall Certificate pre-lerred. Whitley Council salary scale applies. Address written applications, giving full personal particulars and two names and addresses for reference to W. Bowring, Group Secretary, Pinderhelds General Hospital, Wakefield.

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, CHORLEY AND DISTRICT HOSPITAL, CHORLEY Pharmacist Applications are invited for the post of pharmacist at the above busy general hospital. Excellent opportunities to obtain wide experience in hospital pharmacy. Whitley Council scale and conditions, Salary £580—£785 per annum plus £25 per annum higher qualification allowance. Applications, with names of two referces, to the Group Secretary, Royal Infirmary, Preston, Lancs. C 8087 COMMITTEE,

ROYAL SEA BATHING
HOSPITAL, MARGATE
Chief Pharmacist (Category III)
Whitley Council salary scale—£785 to £1,070
per annum. The dutics of the post include
responsibilities for the pharmaceutical services
at certain other hospitals and convalescent
homes in the group. Applications, stating age,
qualifications and experience, with names of
two referees, to the Hospital Secretary. C 403

STEPPING HILL HOSPITAL, STOCKPORT

Student Pharmacist

Applications are invited from post-graduate students for the above post.

Applications, stating age, educational qualifications, etc., to the Sceretary, Stockport and Buxton H.M.C., 598 Shaw Heath, Stockport

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE, ASHFORD HOSPITAL, ASHFORD, MIDDLESEX

Pharmacist
required on salary scale £580 to £785 per annum, plus London Weighting Allowance. OR Locum Pharmacist, salary £16 16s, per week. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. immediately.

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE Senior Pharmacist

There is an immed ate vacancy at Stepping Hill Hospital, Stockport, which offers good experience in a modern department providing pharmaceutical service to a group of hospitals. Applications with full particulars to the Secretary, Stockport and Buxton H.M.C., 59B Shaw Heath, Stockport.

C 8080

ST. GEORGE'S AND CITY HOSPITALS, LINCOLN

(360 beds)

Assistant-in-Dispensing
An Assistant-in-dispensing is required to start at the above hospitals on July 28, 1958. The hospitals are situated in a pleasant position and provide a variety of interesting work. Whitley Council conditions of salary and service apply. Applications to Hospital Secretary. C 8114

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.I Senior Pharmacist

Senior Pharmacist
Permanent post in modern department, Salary £650 to £830, plus appropriate London Weighting and high qualification allowance. Apply with details of age, training and experience to C 400

ST. OLAVE'S HOSPITAL,

ST. OLAVE'S HOSPITAL, ROTHERHITHE, S.E.16

Pharmacist and Assistant-in-Dispensing required as soon as possible. Whitley Council conditions. Salarics: Pharmacist £580—£785 p.a. according to experience; Assistant-in-Dispensing (age 22 and over) £375—£490, with £20 payable for appropriate qualification, London Weighting applies in both cases, Apply giving details, with names of two referees, to Hospital Secretary.

C 8035

ST. LEONARD'S HOSPITAL, **NUTTALL STREET,** LONDON, N.1

Locum Pharmaeist required from June 16, 1958, Salary up to 16 gns. a week, Apply to Hospital Secretary. Telephone: Clerkenwell 2901, C 401

SUNDERLAND AREA HOSPITAL MANAGEMENT COMMITTEE

Pharmacist required for the General Hospital, Salary £580 x £30 (6)—£760 x £25 (1)—£785. Whitley Council conditions.

Apply immediately naming two referees to the Group Secretary, Sunderland Area Hospital Management Committee, General Hospital, Chester Road, Sunderland, C 8107

SUNDERLAND AREA HOSPITAL

MANAGEMENT COMMITTEE
Loeum Pharmacists
required, One for General Hospital now, and one for the Royal Infirmary from September 1 to 13, 1958,
Salary by arrangement,
Apply in writing to the Group Secretary, General Hospital, Chester Road, Sunderland, C 8106

WINWICK AND NEWCHURCH HOSPITAL MANAGEMENT **COMMITTEE**

COMMITTEE

Applications are invited for the post of Senior Pharmaeist
in the Group Pharmaceutical Department in Winwick Hospital (2,305 beds).

Salary £650 x £30 (6)—£830.

Applications giving date of birth, full particulars regarding qualifications, and experience together with names and addresses of two referees should be forwarded to Medical Superintendent (Ref.; CD/90), Winwick Hospital, Warrington, to arrive not later than June 21, 1958.

C 8040

EDUCATIONAL

LONDON COLLEGE OF PHARMACY AND CHEMISTRY FOR WOMEN

7 Westbourne Park Road, W.2 Established 1892

The only College in S.E, England teaching exclusively for the Assistants-in-Dispensing Examination of the Society of Apothecaries, Enrolling now for six months' full-time or 2-year part-time courses for Student Dispensers under 1956 Regulations, 83:3 per cent, Examination successes in 1957.

SITUATIONS VACANT RETAIL (HOME)

CAMERA SALES. Male or female. Enthusiastic amateur or assistant with some experience. Ring F1 E. 9391 or apply City Sate & Exchange, 1td., 93/4 Fleet Street, E.C.4, C 8112

DARIMOUTH, DEVON. Owing to expansion, DARIMOUTH, DEVON. Owing to expansion, a vacancy will shortly occur for a Manager of an old-established pharmacy with accommodation available. Leading co-metics agencies. Ample scope given for development, Superannuation and sickness schemes. Apply, giving full details to Pharmacy Manager, Plymouth Cooperative Society, Pharmacy Office, Vauxhall Street, Plymouth.

Street, Plymouth.

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of pharmacist branch manager. Accommodation, modern house made available, if necessary, Superannuation. Salary and other emoluments, £930. Applications, stating age, experience, etc., to Oldham. Co-operative Chemists, Ltd., King C. 388

LOCUMS WANTED

by the Army & Navy Stores, Ltd., August 11-23, Dispensary supervision only, State terms. Staff Manager, 12 Arrillery Row, Victoria, S.W.I.

WHOLESALE

BURROUGHS WELLCOME & CO. invite applications from pharmaceutical chemists for production posts in the Pharmaceutical D.vision at the Wellcome Chemical Works. A vacancy also exists for a qualified woman to do forensic and administrative work in the Packaging Development and Design Department. Recently qualified pharmaceutical chemists are clip-ble to reply. Contributory pension scheme, Good conditions of employment, Safary will be according to qualifications and experience, Applications should be made in writing to the Personnel Manager, Wellcome Chemical Works, Dartford, Kent. Dartford, Kent.

ALLIED LABORATORIES LIMITED Medical Representative

As a result of reorganisation and expansion, applications are invited for vacancies in the following territories:

1. West London.

2. Cheshire and South Lancashire.

3. Sussex.

Previous experience in representative

Previous experience in representative work is desirable but not essential as training will be given. A sound pharmaceutical and/or medical background is, however, necessary. Applicants should hold a current driving licence and reside in the area for which applying. Remuneration is by salary and expenses and a car is provided. An attractive Life Assurance and Pension Scheme is also in operation. Applications, giving details of career to date, should be addressed to Sales Manager, Allied Laboratories, 1td., 140 Park Lane, London, W.I. C Previous experience in representative

LADY REPRESENTATIVES in North and Midlands with experience of retail chemists and/or drapery trade, required by rapidly expanding manufacturer of hygienic garmenis, National advertising, generous commission and guarantee. Write Box C 8099,

AN OLD-ESTABLISHED Pharmaceualso OLD-ESTABLISHED Pharmaceutical Company in the North-west requires the services of an experienced lablet Coater. The department is a large one, and the post offers good prospects, with contributory pension scheme after a probationary period, Box C 8104,

ABBOTT LABORATORIES LIMITED have vacancies for young pharmacists in their development section concerned with formulations of new products, Experience not essential but candidates must possess initiative and have aptitude for this type of work, Five-day week, pension scheme, etc. Apply the Secretary, Ref. H.L., Abbott Laboratories Limited, Bede Trading Estate, Jarrow-on-Tyne, co. Durham,

MEDICAL REPRESENTATIVES

A progressive, leading Pharmaceutical Company has vacancies for Medical Representatives in the following parts of the United Kingdom.

(1) London (all postal districts),
(2) Lancashire (South and Northwest)

west)

(3) The Midlands.
(4) Somerset and Devon,
(5) Sheffield,

(5) Sheffield, Applications are invited from Pharmacists or men with pharmaceutical experience to fill these positions where enthusiasm and hard work will be rewarded by good conditions of service and assured future. Applications giving full details of career to date should be addressed to Box C 7988.

OPPORTUNITY to jo.n world-famous organisation for training for a responsible well-paid career in which personality, patience, an interest in health matters and a desire to develop ability in retail selling are all required. Energetic men and women, with ambition, aged 24 to 30, ready to undertake interesting training course in London, should apply with fullest possible details of career to date to: Personnel Manager, Box No. 851, Smiths, 296 High Holborn, London, W.C.J.

ORGANON LABORATORIES LIMITED

Require Assistant to Home Sales Manager

Pharmacist with good business background, Experience in pharmaceutical industry an advantage, Age 27/35. Good correspondent and able to handle technical and general queries on phone, Familiarity with general field of "Ethics" essential, but training given on the Company's products. Salary commensurate with qualifications and experience. Pension and life assurance scheme in operation, Please send fully detailed application in confidence to The Secretary, Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2. C 8108

PHARMETHICALS (LONDON) LTD.—
the English Subsidiary Company of Schering A.G. Berlin—require two experienced medical representatives, aged 23-40, for

1. YORKSHIRE,
2. WEST MIDLANDS.
The products to be detailed to the medical profession are interesting and can be considered defin te contributions to medical science.
A generous salary will be paid and a car provided, An attractive non-contributory pension scheme will be available after a probationary period.
Applicants, who should have received a good general education and who are prepared to work really hard within a young and progressive organisation, should write in confidence, enclosing photograph and giving full details to:

The Sales Manager, Fharmethicals (London) Ltd., 20 Gerrard Street, London, W.I.

C 8097

REPRESENTATIVE required calling on U.K. hospitals, by manufacturers of surgical instruments, hypodermic syringes, laboratory glassware, etc., preference given to applicant with medical hackground, Existing accounts handed over to suitable man. Remuneration, salary and commission, car expenses or car provided. Box C 1556

REPRESENTATIVE

THE DISTILLERS COMPANY LTD.

The Distillers Company (Biochemicals), Ltd., a subs.diary of The Distillers Co., Ltd., and manufacturers of antibiotics and vitamin products, have a vacancy for a medical and pharmaceutical representative to cover Leicestershire, Northamptonshire and part of Lincolnshire

shire, Candidates should be aged not over 45, living in or near Leicester, and should preferably hold a pharmaceutical qualification. The salary paid will be commensurate with qualifications and experience; a car will be provided. The Company operates a non-contributory pension scheme. pension scheme.

Write: The Home Sales Manager,
The Distillers Company (Biochemicals),
Limited, Broadway House, The Broadway, Wimbledon, London, S.W.19

Correspondence should be marked C 8083

STAFFORD ALLEN & SONS, LTD., Long Melford, Suffolk, require an alert, keen and enthusiastic young man, about 25, as assistant to filling and packing manager, Ideal working conditions and excellent prospects. Superannuation scheme in operation, Housing problems will receive sympathetic consideration, Apply in writing giving full relevant details to Filling and Packing Manager.

C 8076

THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED

Applications are invited from men up Applications are invited from men up to 45 years of age with the appropriate experience for the position of medical and pharmaceutical representatives, The vacant territories cover:

- South Durham and Yorkshire, North Riding, (Based near Middlesbrough.)
- North Wales and parts of Cheshire. (Based near Chester.)
- 3. North-west London.
- 4. Central and North-east London.

and the successful applicants would have to reside within their territories. A pharmaceutical qualification is desirhave

The initial salary will be commensurate with experience and qualifications. A car is provided and all legitimate expenses met. A non-contributory pension scheme is in operation.

Application forms may be obtained from The Home Sales Manager at Broadway House, The Broadway, Wimbledon, London, S.W.19, Correspondence should be marked "Confidential." C 8096

UNHEVER LIMITED

invite applications for the position of a Flavouring Chemist at their Central Perfumery Department.

Applicants should be not more than 35 years of age, thoroughly conversant with the nature and use of natural and synthetic flavouring ingredients, and preference will be given to applicants having had several years? experience in a similar position.

naving had several years experience in a similar position.

Salary according to qualifications and experience which should be advised in the first instance by letter to Unilever Limited, Central Perfumery Department, 1 Southwark Park Road, London, S.E.16.

C 8056

SANDOZ PRODUCTS LIMITED

require

FIRST - CLASS

MEDICAL REPRESENTATIVES

FOR

LONDON AREA. HOME COUNTIES. MANCHESTER AREA. LIVERPOOL AREA.

These appointments offer secure, interesting and rewarding careers to the right men. Salary and commission initially depend on age, qualifications and previous experience, but are designed subsequently to recognise individual merit, initiative and achievement. Conditions of service include pension fund, accident insurance and car purchase scheme. Full expenses are paid.

Candidates should preferably possess a pharmaceutical or equivalent qualification, but applicants with a suitable technical background will be considered provided they have the personal qualities of integrity and enthusiasm.

Application form upon request to:

THE MANAGEMENT, SANDOZ PRODUCTS LIMITED, "SANDOZ HOUSE," 23 GREAT CASTLE STREET, LONDON, W.1

C 8105

RIKER

TABLET MANUFACTURE AND PACKAGING DEPARTMENT

Due to the continued expansion of the company an opportunity has arisen for a young pharmacist or chemist to learn the techniques of tablet manufacture and packaging.

Prospects of advancement are good for a man of the right calibre wishing to specialise in this aspect of the pharmaceutical industry.

Remuneration is by salary and bonus and there is a pension scheme in operation.

> Write in the first instance to: THE WORKS MANAGER, RIKER LABORATORIES LIMITED, LOUGHBOROUGH, LEICS. C 8109

PHARMACIST—WEST AFRICA

IMPERIAL CHEMICAL INDUSTRIES LIMITED

has a vacancy for a pharmacist for medical representa-tive work in British West Africa, based on Lagos. Applicants should be actively interested in a career overseas where the appointment is to the established staff and is pensionable. A motor-car will be provided and furnished accommodation is available. The tours will be of from 12 to 18 months duration, followed by paid leave in the United Kingdom. There are reasonable prospects of promotion with a young and expanding organisation. Applications with full particulars should be addressed to The Staff Manager, Imperial Chemical Industries Limited, Pharmaceuticals Division, Fulshaw Hall, Wilmslow, Cheshire.

A. H. ROBINS COMPANY LIMITED

MEDICAL REPRESENTATIVES

English Associate of leading American Ethical Pharmaceutical House requires medical representatives to visit the profession in the London area and Home Counties.

We are particularly interested in interviewing men who have gained experience with a first-class ethical house and have an established connection in the London area. To this end it is desirable that applicants be earning a present salary of £1,000 per annual and above. per annum and above.

The vacancies available offer a unique opportunity of joining a company of the highest domestic reputation and integrity, at the onset of its operation in this country.

Remuneration by salary, commission and expenses, provided

Applications in strict confidence should be addressed to: A. H. Robins Co. Ltd., 5 Fenchurch Street, London, E.C.3.

C 8095

SENIOR SALES EXECUTIVE

A SENIOR HOME SALES EXECUTIVE is required by one of the principal essential oil and aromatic houses. The position is one of responsibility and scope. Ability to organise sales of a wide variety of products is more important than a detailed knowledge of the trade. Write, stating age, experience, etc., to Box C 8098.

OVERSEAS APPOINTMENT

Very progressive important Anglo-American manufacturers of popular and ethical medicines with world-wide ramifications have vacancies for Overseas Sales Supervisors in Asia and Africa. Previous sales experience in overseas markets in branded products useful. Successful applicants would reside abroad and must be prepared to be mobile. For really live, energetic and able men, the position is progressive. Preferred age 28-35. Good salary and conditions. Advertiser's employees are aware of these appointments. Write in strictest confidence and fullest detail (with photo) to Export Director. Box C 8115.

= RIKER ===

An attractive opening arises in the Sales Department of Riker Laboratories for a pharmacist or other suitably qualified person to take charge of the company's publicity activities. He will be responsible for the creation of literature and advertisements as well as the preparation and editing of information material for a large force of representatives. The successful candidate should be capable of creative thought and should naturally have a flair for writing. The company has no Advertising or Publicity Manager at the present time and the person appointed will have the opportime and the person appointed will have the oppor-tunity to build up the publicity department. Remunera-tion is by salary and bonus and there is a Pension Scheme in operation. Preferred age 25 to 35.

Write in the first instance to the General Sales Manager, Riker Laboratories Ltd., Loughborough, Leics., marking the envelope Publicity. C: 8061

Situations Vacant—Continued

UNILEVER LIMITED

invite applications for the position of Perfumer at their Central Perfumery Department,
Applicants should be not more than 35 years of age, thoroughly conversant with the nature and use of natural and synthetic perfumery ingredients, and preference will be given to applicants having had several years' experience in similar positions.
Salary according to qualifications and

similar positions.
Salary according to qualifications and experience which should be advised in the first instance by letter to Unilever Limited, Central Perfumery Department, I Southwark Park Road, London, S.E.16.

C 8055

VETERINARY REPRESENTATIVE

THE DISTILLERS COMPANY LTD.

The Distillers Company (Biochemicals), Ltd., a subsidiary of The Distillers Co., Ltd., and manufacturers of antibiotics and vitamin products, wish to appoint a Veterinary Representative to call on veterinary surgeons in South-west England and South Wales. Candidates should desirably have previous experience of this type of work. The salary paid will be commensurate with qualifications and experience; a car will be provided. The Company operates a non-contributory pension scheme.

Write:
Staff Manager,
The Distillers Company Limited,
21 St. James's Square,
London, S.W.I.

Ouote: Ref. 44/58, C.D. C 8084

WHOLESALE (OVERSEAS)

MAY & BAKER, LTD., Dagenham, Essex, invite applications from suitably qualified personnel, preferably pharmacists, for two important vacancies on the sales force of their Organisation in Salisbury, Southern Rhodesia, These will appeal to young men aged 23-30 with sound retail or hospital background and anxious to go abroad. Representative experience in the ethical field will carry some measure of preference. Duties involve the promotion of the Company's products to the medical, veterinary and allied professions and there are increasing opportunities for promotion to executive level both at home and abroad. Detailed training will be provided in the United Kingdom. The Company operates a Pension Fund and Life Assurance scheme, Apply initially in writing, giving full details of education and experience, to the Personnel Office, quoting Reference No. 77/58.

C 8100

MALAYA

MALAYA

Burroughs Wellcome & Co, wish to appoint a Pharmacist to the staff of their Malayan agents. Duties will be of an executive nature associated with sales promotion and administration. Age preferably about 30, but consideration given to a younger man ol good potential, Good salary plus housing and other benefits. Congenial working conditions in a large British firm, Initial tour of three years followed by six months' leave in U.K. on full salary. Apply with full details to The Manager, Overseas Sales Department, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.I. C 8116

AGENTS WANTED

AGENTS required in the London area to handle nationally advertised soft drink products. Please write, stating wholesale, multiple and/or retail outlets in confectionery, wines/spirits, green fruit trades, to Box No.: 1786, e/o Abbotts, Eastcheap, E.C.3. C 8089

BUYING AGENTS required for unique skin ointment by manufacturers. One for Scotland and one for Lancashire, Must have connections with retail chemists, drug stores, etc. 25 per cent. commission. Box C 1576.

OLD-ESTABLISHED LONDON FIRM requires

agents with sound connections amongst stores, chemists, gift shops, etc., for the sale of their perfumery gift items. Remuneration by liberal commission. Car essential, Northern and Midland counties and North Wales. Write fully Box C 1569.

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Manufacturers of Plastic Baby Pants, Bibs and Cot Mattress Covers, supplying direct to Retail Chemists, seek Representatives or Agents to handle above-mentioned lines on excellent commission terms. Keenest prices, prompt deliveries, All areas available at present present.
Replies to Box C 1567 indicating area

regularly covered.

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GENTLEMAN requires a position in charge of "Medical Service" department with a pharmaceutical company of repute. Good all-round experience in medical representation, engaging representatives, external supervision, internal administration. Fully conversant with all forms of medical advertising and propaganda, institution of clinical trials, and has a country-wide connection with the medical profession, Box C 1570.

C 1570, GENTLEMAN (26), qualified in Eire, 5½ years' experience, including 10 months' dispensing in London, seeks change, retail manufacturing or wholesale. No Saturdays. Box C 1573, TRAVELLER desires change, offering greater opportunity. Good experience and connection London area, Would also consider responsible inside position. Box C 1571.

AGENCIES WANTED

AGENT requires additional Chemists' Sundres' lines, Established connections with the Departmental Stores, Wholesale and Retail Chemists in North-east England, Box C 1568.

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PHARMACEUTICAL COMPANY of suba PHARMACEUTICAL COMPAINT of substantial size and reputation desires to acquire an interest in a small or medium-sized provincial firm of Pharmaceutical Wholesalers having an established local business for the distribution of Ethicals, The firm should be located within 100 miles of London, Apply Box C 8075, AUSTRIAN PHARMACEUTICAL COMPANY 20 years applying the good connections to within 100 miles of London, Apply Box C 8075, AUSTRIAN PHARMACEUTICAL COMPANY 30 years established with good connections to all hospitals and doctors, five medical propagandists employed, seeks sole representation of well-known and serious English pharmaceutical products. Firms interested in export to Austria please write to Mr. T. Parkway, 138 Eton Avenue, Wembley. C 1559 EXPANSION OF PLANT. Reputable firm making bath cubes for the trade is able to take further contracts. Box No, AC40429, Samson Clarks, 57/61 Mortimer St., W.1. C 8077 MANUFACTURING FACILITIES AVAILABLE for a variety of chemical and allied products. Any proposition investigated and strictest confidence observed. Write Box C 1555, OUR FACIORY AT YOUR DISPOSAL, We have modern facilities for the production, under your own Brand, of preparations like bath cubes, bath salts, powder in envelopes, perfumes, talcum powder, etc., as well as technical products, e.g., disinfectant blocks, moth repellents and agricultural tablets. Write Box AC 36699, Samson Clarks, 57/61 Mortimer Street, W.1. C 7909 SILICONE Rubber Bungs, tubing, sheet, bottle cap liners, washers and mouldings made to specification. Esco (Rubber), Ltd., 34-36 Somerford Grove, London, N.16. C 241

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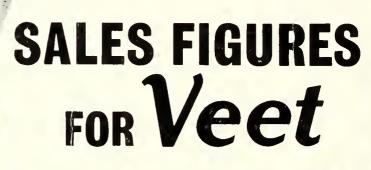
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